

## Foellmi, Thomas J - DNR

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**From:** DiMaggio, Janet H - DNR  
**Sent:** Monday, January 25, 2021 9:22 AM  
**To:** Brad Brown  
**Subject:** RE: Riverbend Stadium - Engineered Barrier Topsoil Testing

Good Morning Brad,

Please keep this response in your files. The values in the soils proposed to be used as the topsoil cap at the stadium are acceptable to the Department.  
You may proceed with importing the soils.

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Janet DiMaggio, P.G.**

Cell Phone: (608) 219-2155

janet.dimaggio@wisconsin.gov

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**From:** Brad Brown <brad@brownfieldusa.com>  
**Sent:** Sunday, January 24, 2021 12:52 PM  
**To:** DiMaggio, Janet H - DNR <Janet.DiMaggio@wisconsin.gov>  
**Subject:** Riverbend Stadium - Engineered Barrier Topsoil Testing

Hi Janet,

I hope this finds you healthy and well!

Attached are the analytical testing results documenting the contaminant levels of topsoil proposed to be imported to the site for the engineered barrier in areas where pavement or other hard surfaces are not present. The samples showing levels of Arsenic and Barium above the NR 720 Cleanup Standards and soil to groundwater pathway limits, BUT substantially below the statewide background levels.

The laboratory report references the results with a "j" footnote, which means that the reported limit is an 'Estimated concentration at or above the Limit of Detection and below the Limit of Quantification'. We spoke with Pace, and they indicated that the value they reported is significant, but the lab is not fully confident in the value. This is because the detection limit they had to use was very low during the calibration process.

For the Arsenic and Barium:

A report from the WDNR showed that the statewide background threshold value for naturally occurring Arsenic would be 8 mg/kg. Our values were all below this threshold value.

A report from the WDNR showed that the statewide background threshold value for naturally occurring Barium would be 360 mg/kg. Our values were all below this threshold value.

I believe we should be able to use the topsoil tested and certify as clean for the engineered barrier, with a reference to the background levels of Arsenic and Barium, but wanted to double check with you to confirm before importing the material to the site.

Please let me know if you would like to set up a time for a quick call to review.

Thanks!  
Brad

*Talent wins games, but teamwork and intelligence wins championships. —Michael Jordan*

Bradley A. Brown, P.E. - Principal



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Client Project	Sample ID	Lab ID	Collected Date	Method	Matrix	Parameter	Results	Units	PQL	(Id: 1459) WI NR 720 Soil to Groundwater Pathway (Effective 6/1/14)	(Id: 1571) WI NR 720 Soil Cleanup Standards Table 2 Direct Contact Industrial (Effective 1/1/2015)	(Id: 1598) WI NR 720 Soil Cleanup Standards Table 2 Direct Contact Non-Industrial (Effective 1/1/2015)	(Id: 185) WI NR 720 Soil Cleanup Standards Table 1 Groundwater Protection
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	ASTM D2974-87	Solid	Percent Moisture	20.4	%	0.10				
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Arsenic	5.1	mg/kg	2.9	.58	2.4	.61	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Barium	195	mg/kg	0.59	165	100000	15300	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Cadmium	0.16 J	mg/kg	0.59	.75	799	70	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Chromium	22.7	mg/kg	1.2	360000			
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Lead	16.2	mg/kg	2.3	27	800	400	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Selenium	<1.5	mg/kg	4.7	.52	5110	391	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 6010	Solid	Silver	<0.36	mg/kg	1.2	.85	5110	391	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 7471	Solid	Mercury	0.026 J	mg/kg	0.042	.21	3.1	3.1	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	1,2,4-Trimethylbenzene	<19.9	ug/kg	66.8		219000	89800	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	1,3,5-Trimethylbenzene	<21.5	ug/kg	66.8		182000	182000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	Benzene	<15.9	ug/kg	26.7	5.1	7410	1490	5.5
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	Ethylbenzene	<15.9	ug/kg	66.8	1570	37000	7470	2900
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	Methyl-tert-butyl ether	<19.7	ug/kg	66.8	27	293000	59400	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	Toluene	<16.8	ug/kg	66.8	1110	818000	818000	1500
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	Xylene (Total)	<48.3	ug/kg	201	3940	258000	258000	4100
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	m&p-Xylene	<28.2	ug/kg	134				
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8260	Solid	o-Xylene	<20.1	ug/kg	66.8		434000	434000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	1-Methylnaphthalene	<3.1	ug/kg	21.0		53100	15600	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	2-Methylnaphthalene	<3.1	ug/kg	21.0		2200000	229000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Acenaphthene	<2.7	ug/kg	21.0		33000000	3440000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Acenaphthylene	<2.6	ug/kg	21.0				
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Anthracene	<2.6	ug/kg	21.0	198000	10000000	17200000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Benzo(a)anthracene	15.2 J	ug/kg	21.0		2110	148	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Benzo(a)pyrene	16.0 J	ug/kg	21.0	470	211	15	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Benzo(b)fluoranthene	30.6	ug/kg	21.0	479	2110	148	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Benzo(g,h,i)perylene	15.6 J	ug/kg	21.0				
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001		12/15/2020 11:25	EPA 8270 by SIM	Solid	Benzo(k)fluoranthene	9.4 J	ug/kg	21.0		21100	1480	

144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Chrysene	20.3 J	ug/kg	21.0	145		211000	14800	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Dibenz(a,h)anthracene	3.3 J	ug/kg	21.0			211	15	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Fluoranthene	36.1	ug/kg	21.0	88900		22000000	2290000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Fluorene	<2.5	ug/kg	21.0	14800		22000000	2290000	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Indeno(1,2,3-cd)pyrene	12.8 J	ug/kg	21.0			2110	148	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Naphthalene	3.7 J	ug/kg	21.0	658		26000	5150	
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Phenanthrene	15.5 J	ug/kg	21.0					
144-002 RIVERBEND STADIUM	TOPSOIL-140219946001	12/15/2020 11:25	EPA 8270 by SIM	Solid	Pyrene	27.7	ug/kg	21.0	54100		16500000	1720000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	ASTM D2974-87	Solid	Percent Moisture	24.0	%	0.10					
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Arsenic	3.0 J	mg/kg	3.0	.58		2.4	.61	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Barium	199	mg/kg	0.61	165		100000	15300	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Cadmium	<0.16	mg/kg	0.61	.75		799	70	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Chromium	21.9	mg/kg	1.2	360000				
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Lead	16.0	mg/kg	2.4	27		800	400	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Selenium	<1.6	mg/kg	4.8	.52		5110	391	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 6010	Solid	Silver	<0.37	mg/kg	1.2	.85		5110	391	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 7471	Solid	Mercury	0.041 J	mg/kg	0.042	.21		3.1	3.1	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	1,2,4-Trimethylbenzene	<19.6	ug/kg	65.8			219000	89800	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	1,3,5-Trimethylbenzene	<21.2	ug/kg	65.8			182000	182000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	Benzene	<15.7	ug/kg	26.3	5.1		7410	1490	5.5
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	Ethylbenzene	<15.7	ug/kg	65.8	1570		37000	7470	2900
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	Methyl-tert-butyl ether	<19.3	ug/kg	65.8	27		293000	59400	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	Toluene	<16.6	ug/kg	65.8	1110		818000	818000	1500
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	Xylene (Total)	<47.5	ug/kg	197	3940		258000	258000	4100
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	m&p-Xylene	<27.8	ug/kg	132					
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8260	Solid	o-Xylene	<19.7	ug/kg	65.8			434000	434000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	1-Methylnaphthalene	<3.2	ug/kg	22.0			53100	15600	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	2-Methylnaphthalene	<3.2	ug/kg	22.0			2200000	229000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Acenaphthene	<2.9	ug/kg	22.0			33000000	3440000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Acenaphthylene	<2.8	ug/kg	22.0					

144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Anthracene	<2.7	ug/kg	22.0	198000		100000000	17200000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Benzo(a)anthracene	6.5 J	ug/kg	22.0			2110	148	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Benzo(a)pyrene	5.1 J	ug/kg	22.0	470		211	15	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Benzo(b)fluoranthene	8.2 J	ug/kg	22.0	479		2110	148	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Benzo(g,h,i)perylene	4.5 J	ug/kg	22.0					
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Benzo(k)fluoranthene	3.3 J	ug/kg	22.0			21100	1480	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Chrysene	6.1 J	ug/kg	22.0	145		211000	14800	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Dibenz(a,h)anthracene	<3.0	ug/kg	22.0			211	15	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Fluoranthene	14.2 J	ug/kg	22.0	88900		22000000	2290000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Fluorene	<2.6	ug/kg	22.0	14800		22000000	2290000	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Indeno(1,2,3-cd)pyrene	<4.6	ug/kg	22.0			2110	148	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Naphthalene	3.0 J	ug/kg	22.0	658		26000	5150	
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Phenanthrene	7.0 J	ug/kg	22.0					
144-002 RIVERBEND STADIUM	TOPSOIL-240219946002	12/15/2020 11:35	EPA 8270 by SIM	Solid	Pyrene	10.9 J	ug/kg	22.0	54100		16500000	1720000	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	ASTM D2974-87	Solid	Percent Moisture	20.2	%	0.10					
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Arsenic	4.2	mg/kg	3.1	.58		2.4	.61	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Barium	194	mg/kg	0.61	165		100000	15300	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Cadmium	<0.16	mg/kg	0.61	.75		799	70	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Chromium	23.2	mg/kg	1.2	360000				
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Lead	14.9	mg/kg	2.4	27		800	400	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Selenium	<1.6	mg/kg	4.9	.52		5110	391	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 6010	Solid	Silver	<0.38	mg/kg	1.2	.85		5110	391	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 7471	Solid	Mercury	0.024 J	mg/kg	0.042	.21		3.1	3.1	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	1,2,4-Trimethylbenzene	<18.7	ug/kg	62.6			219000	89800	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	1,3,5-Trimethylbenzene	<20.2	ug/kg	62.6			182000	182000	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	Benzene	<14.9	ug/kg	25.1	5.1		7410	1490	5.5
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	Ethylbenzene	<14.9	ug/kg	62.6	1570		37000	7470	2900
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	Methyl-tert-butyl ether	<18.4	ug/kg	62.6	27		293000	59400	
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	Toluene	<15.8	ug/kg	62.6	1110		818000	818000	1500
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	Xylene (Total)	<45.2	ug/kg	188	3940		258000	258000	4100

144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	m&p-Xylene	<26.4	ug/kg	125			
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8260	Solid	o-Xylene	<18.8	ug/kg	62.6		434000	434000
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	1-Methylnaphthalene	<3.1	ug/kg	21.0		53100	15600
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	2-Methylnaphthalene	<3.1	ug/kg	21.0		2200000	229000
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Acenaphthene	<2.7	ug/kg	21.0		33000000	3440000
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Acenaphthylene	<2.6	ug/kg	21.0			
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Anthracene	<2.6	ug/kg	21.0	198000	100000000	17200000
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Benzo(a)anthracene	8.6 J	ug/kg	21.0		2110	148
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Benzo(a)pyrene	8.1 J	ug/kg	21.0	470	211	15
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Benzo(b)fluoranthene	15.2 J	ug/kg	21.0	479	2110	148
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Benzo(g,h,i)perylene	7.5 J	ug/kg	21.0			
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Benzo(k)fluoranthene	4.9 J	ug/kg	21.0		21100	1480
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Chrysene	10.7 J	ug/kg	21.0	145	211000	14800
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Dibenz(a,h)anthracene	<2.9	ug/kg	21.0		211	15
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Fluoranthene	18.2 J	ug/kg	21.0	88900	22000000	2290000
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Fluorene	<2.5	ug/kg	21.0	14800	22000000	2290000
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Indeno(1,2,3-cd)pyrene	6.1 J	ug/kg	21.0		2110	148
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Naphthalene	<2.0	ug/kg	21.0	658	26000	5150
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Phenanthrene	7.3 J	ug/kg	21.0			
144-002 RIVERBEND STADIUM	TOPSOIL-340219946003	12/15/2020 11:45	EPA 8270 by SIM	Solid	Pyrene	14.0 J	ug/kg	21.0	54100	16500000	1720000

December 23, 2020

Angelina Arcuri  
Brownfield Environmental  
645 Third Street  
Suite 250  
Beloit, WI 53511

RE: Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

Dear Angelina Arcuri:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



Dan Milewsky  
dan.milewsky@pacelabs.com  
(920)469-2436  
Project Manager

Enclosures

cc: Brad Brown, Brownfield Environmental Engineering  
Resources, LLC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

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### **Pace Analytical Services Green Bay**

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
40219946001	TOPSOIL-1	Solid	12/15/20 11:25	12/16/20 12:00
40219946002	TOPSOIL-2	Solid	12/15/20 11:35	12/16/20 12:00
40219946003	TOPSOIL-3	Solid	12/15/20 11:45	12/16/20 12:00

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### SAMPLE ANALYTE COUNT

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40219946001	TOPSOIL-1	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	ALD	12	PASI-G
		ASTM D2974-87	MMX	1	PASI-G
40219946002	TOPSOIL-2	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	ALD	12	PASI-G
		ASTM D2974-87	N1H	1	PASI-G
40219946003	TOPSOIL-3	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	JJB	20	PASI-G
		EPA 8260	ALD	12	PASI-G
		ASTM D2974-87	N1H	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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### SUMMARY OF DETECTION

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40219946001</b>	<b>TOPSOIL-1</b>					
EPA 6010	Arsenic	5.1	mg/kg	2.9	12/21/20 13:38	
EPA 6010	Barium	195	mg/kg	0.59	12/21/20 13:38	
EPA 6010	Cadmium	0.16J	mg/kg	0.59	12/21/20 13:38	
EPA 6010	Chromium	22.7	mg/kg	1.2	12/21/20 13:38	
EPA 6010	Lead	16.2	mg/kg	2.3	12/21/20 13:38	
EPA 7471	Mercury	0.026J	mg/kg	0.042	12/22/20 08:31	
EPA 8270 by SIM	Benzo(a)anthracene	15.2J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Benzo(a)pyrene	16.0J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Benzo(b)fluoranthene	30.6	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Benzo(g,h,i)perylene	15.6J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Benzo(k)fluoranthene	9.4J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Chrysene	20.3J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Dibenz(a,h)anthracene	3.3J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Fluoranthene	36.1	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	12.8J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Naphthalene	3.7J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Phenanthrene	15.5J	ug/kg	21.0	12/18/20 13:20	
EPA 8270 by SIM	Pyrene	27.7	ug/kg	21.0	12/18/20 13:20	
ASTM D2974-87	Percent Moisture	20.4	%	0.10	12/17/20 16:56	
<b>40219946002</b>	<b>TOPSOIL-2</b>					
EPA 6010	Arsenic	3.0J	mg/kg	3.0	12/21/20 13:40	
EPA 6010	Barium	199	mg/kg	0.61	12/21/20 13:40	
EPA 6010	Chromium	21.9	mg/kg	1.2	12/21/20 13:40	
EPA 6010	Lead	16.0	mg/kg	2.4	12/21/20 13:40	
EPA 7471	Mercury	0.041J	mg/kg	0.042	12/22/20 08:33	
EPA 8270 by SIM	Benzo(a)anthracene	6.5J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Benzo(a)pyrene	5.1J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Benzo(b)fluoranthene	8.2J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Benzo(g,h,i)perylene	4.5J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Benzo(k)fluoranthene	3.3J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Chrysene	6.1J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Fluoranthene	14.2J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Naphthalene	3.0J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Phenanthrene	7.0J	ug/kg	22.0	12/18/20 13:37	
EPA 8270 by SIM	Pyrene	10.9J	ug/kg	22.0	12/18/20 13:37	
ASTM D2974-87	Percent Moisture	24.0	%	0.10	12/22/20 17:31	
<b>40219946003</b>	<b>TOPSOIL-3</b>					
EPA 6010	Arsenic	4.2	mg/kg	3.1	12/21/20 13:43	
EPA 6010	Barium	194	mg/kg	0.61	12/21/20 13:43	
EPA 6010	Chromium	23.2	mg/kg	1.2	12/21/20 13:43	
EPA 6010	Lead	14.9	mg/kg	2.4	12/21/20 13:43	
EPA 7471	Mercury	0.024J	mg/kg	0.042	12/22/20 08:35	
EPA 8270 by SIM	Benzo(a)anthracene	8.6J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Benzo(a)pyrene	8.1J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Benzo(b)fluoranthene	15.2J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Benzo(g,h,i)perylene	7.5J	ug/kg	21.0	12/18/20 13:54	

### REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40219946003</b>	<b>TOPSOIL-3</b>					
EPA 8270 by SIM	Benzo(k)fluoranthene	4.9J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Chrysene	10.7J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Fluoranthene	18.2J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	6.1J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Phenanthrene	7.3J	ug/kg	21.0	12/18/20 13:54	
EPA 8270 by SIM	Pyrene	14.0J	ug/kg	21.0	12/18/20 13:54	
ASTM D2974-87	Percent Moisture	20.2	%	0.10	12/22/20 17:31	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

**Sample: TOPSOIL-1**      **Lab ID: 40219946001**      Collected: 12/15/20 11:25      Received: 12/16/20 12:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	5.1	mg/kg	2.9	1.7	1	12/18/20 07:05	12/21/20 13:38	7440-38-2	
Barium	195	mg/kg	0.59	0.18	1	12/18/20 07:05	12/21/20 13:38	7440-39-3	
Cadmium	0.16J	mg/kg	0.59	0.16	1	12/18/20 07:05	12/21/20 13:38	7440-43-9	
Chromium	22.7	mg/kg	1.2	0.33	1	12/18/20 07:05	12/21/20 13:38	7440-47-3	
Lead	16.2	mg/kg	2.3	0.70	1	12/18/20 07:05	12/21/20 13:38	7439-92-1	
Selenium	<1.5	mg/kg	4.7	1.5	1	12/18/20 07:05	12/21/20 13:38	7782-49-2	
Silver	<0.36	mg/kg	1.2	0.36	1	12/18/20 07:05	12/21/20 13:38	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.026J	mg/kg	0.042	0.012	1	12/21/20 09:42	12/22/20 08:31	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.7	ug/kg	21.0	2.7	1	12/18/20 08:07	12/18/20 13:20	83-32-9	
Acenaphthylene	<2.6	ug/kg	21.0	2.6	1	12/18/20 08:07	12/18/20 13:20	208-96-8	
Anthracene	<2.6	ug/kg	21.0	2.6	1	12/18/20 08:07	12/18/20 13:20	120-12-7	
Benzo(a)anthracene	15.2J	ug/kg	21.0	2.7	1	12/18/20 08:07	12/18/20 13:20	56-55-3	
Benzo(a)pyrene	16.0J	ug/kg	21.0	2.4	1	12/18/20 08:07	12/18/20 13:20	50-32-8	
Benzo(b)fluoranthene	30.6	ug/kg	21.0	2.9	1	12/18/20 08:07	12/18/20 13:20	205-99-2	
Benzo(g,h,i)perylene	15.6J	ug/kg	21.0	3.7	1	12/18/20 08:07	12/18/20 13:20	191-24-2	
Benzo(k)fluoranthene	9.4J	ug/kg	21.0	2.7	1	12/18/20 08:07	12/18/20 13:20	207-08-9	
Chrysene	20.3J	ug/kg	21.0	4.0	1	12/18/20 08:07	12/18/20 13:20	218-01-9	
Dibenz(a,h)anthracene	3.3J	ug/kg	21.0	2.9	1	12/18/20 08:07	12/18/20 13:20	53-70-3	
Fluoranthene	36.1	ug/kg	21.0	2.5	1	12/18/20 08:07	12/18/20 13:20	206-44-0	
Fluorene	<2.5	ug/kg	21.0	2.5	1	12/18/20 08:07	12/18/20 13:20	86-73-7	
Indeno(1,2,3-cd)pyrene	12.8J	ug/kg	21.0	4.4	1	12/18/20 08:07	12/18/20 13:20	193-39-5	
1-Methylnaphthalene	<3.1	ug/kg	21.0	3.1	1	12/18/20 08:07	12/18/20 13:20	90-12-0	
2-Methylnaphthalene	<3.1	ug/kg	21.0	3.1	1	12/18/20 08:07	12/18/20 13:20	91-57-6	
Naphthalene	3.7J	ug/kg	21.0	2.0	1	12/18/20 08:07	12/18/20 13:20	91-20-3	
Phenanthrene	15.5J	ug/kg	21.0	2.4	1	12/18/20 08:07	12/18/20 13:20	85-01-8	
Pyrene	27.7	ug/kg	21.0	3.1	1	12/18/20 08:07	12/18/20 13:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	72	%	17-100		1	12/18/20 08:07	12/18/20 13:20	321-60-8	
Terphenyl-d14 (S)	82	%	17-98		1	12/18/20 08:07	12/18/20 13:20	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<15.9	ug/kg	26.7	15.9	1	12/18/20 07:15	12/18/20 18:17	71-43-2	
Ethylbenzene	<15.9	ug/kg	66.8	15.9	1	12/18/20 07:15	12/18/20 18:17	100-41-4	
Methyl-tert-butyl ether	<19.7	ug/kg	66.8	19.7	1	12/18/20 07:15	12/18/20 18:17	1634-04-4	
Toluene	<16.8	ug/kg	66.8	16.8	1	12/18/20 07:15	12/18/20 18:17	108-88-3	
1,2,4-Trimethylbenzene	<19.9	ug/kg	66.8	19.9	1	12/18/20 07:15	12/18/20 18:17	95-63-6	
1,3,5-Trimethylbenzene	<21.5	ug/kg	66.8	21.5	1	12/18/20 07:15	12/18/20 18:17	108-67-8	

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## ANALYTICAL RESULTS

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

**Sample: TOPSOIL-1**      **Lab ID: 40219946001**      Collected: 12/15/20 11:25      Received: 12/16/20 12:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Xylene (Total)	<48.3	ug/kg	201	48.3	1	12/18/20 07:15	12/18/20 18:17	1330-20-7	
m&p-Xylene	<28.2	ug/kg	134	28.2	1	12/18/20 07:15	12/18/20 18:17	179601-23-1	
o-Xylene	<20.1	ug/kg	66.8	20.1	1	12/18/20 07:15	12/18/20 18:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	52-137		1	12/18/20 07:15	12/18/20 18:17	460-00-4	
Toluene-d8 (S)	101	%	56-140		1	12/18/20 07:15	12/18/20 18:17	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	106	%	50-150		1	12/18/20 07:15	12/18/20 18:17	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	<b>20.4</b>	%	0.10	0.10	1		12/17/20 16:56		

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### ANALYTICAL RESULTS

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

**Sample: TOPSOIL-2**      **Lab ID: 40219946002**      Collected: 12/15/20 11:35      Received: 12/16/20 12:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	<b>3.0J</b>	mg/kg	3.0	1.8	1	12/18/20 07:05	12/21/20 13:40	7440-38-2	
Barium	<b>199</b>	mg/kg	0.61	0.18	1	12/18/20 07:05	12/21/20 13:40	7440-39-3	
Cadmium	<b>&lt;0.16</b>	mg/kg	0.61	0.16	1	12/18/20 07:05	12/21/20 13:40	7440-43-9	
Chromium	<b>21.9</b>	mg/kg	1.2	0.34	1	12/18/20 07:05	12/21/20 13:40	7440-47-3	
Lead	<b>16.0</b>	mg/kg	2.4	0.73	1	12/18/20 07:05	12/21/20 13:40	7439-92-1	
Selenium	<b>&lt;1.6</b>	mg/kg	4.8	1.6	1	12/18/20 07:05	12/21/20 13:40	7782-49-2	
Silver	<b>&lt;0.37</b>	mg/kg	1.2	0.37	1	12/18/20 07:05	12/21/20 13:40	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	<b>0.041J</b>	mg/kg	0.042	0.012	1	12/21/20 09:42	12/22/20 08:33	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<b>&lt;2.9</b>	ug/kg	22.0	2.9	1	12/18/20 08:07	12/18/20 13:37	83-32-9	
Acenaphthylene	<b>&lt;2.8</b>	ug/kg	22.0	2.8	1	12/18/20 08:07	12/18/20 13:37	208-96-8	
Anthracene	<b>&lt;2.7</b>	ug/kg	22.0	2.7	1	12/18/20 08:07	12/18/20 13:37	120-12-7	
Benzo(a)anthracene	<b>6.5J</b>	ug/kg	22.0	2.8	1	12/18/20 08:07	12/18/20 13:37	56-55-3	
Benzo(a)pyrene	<b>5.1J</b>	ug/kg	22.0	2.5	1	12/18/20 08:07	12/18/20 13:37	50-32-8	
Benzo(b)fluoranthene	<b>8.2J</b>	ug/kg	22.0	3.1	1	12/18/20 08:07	12/18/20 13:37	205-99-2	
Benzo(g,h,i)perylene	<b>4.5J</b>	ug/kg	22.0	3.9	1	12/18/20 08:07	12/18/20 13:37	191-24-2	
Benzo(k)fluoranthene	<b>3.3J</b>	ug/kg	22.0	2.8	1	12/18/20 08:07	12/18/20 13:37	207-08-9	
Chrysene	<b>6.1J</b>	ug/kg	22.0	4.1	1	12/18/20 08:07	12/18/20 13:37	218-01-9	
Dibenz(a,h)anthracene	<b>&lt;3.0</b>	ug/kg	22.0	3.0	1	12/18/20 08:07	12/18/20 13:37	53-70-3	
Fluoranthene	<b>14.2J</b>	ug/kg	22.0	2.6	1	12/18/20 08:07	12/18/20 13:37	206-44-0	
Fluorene	<b>&lt;2.6</b>	ug/kg	22.0	2.6	1	12/18/20 08:07	12/18/20 13:37	86-73-7	
Indeno(1,2,3-cd)pyrene	<b>&lt;4.6</b>	ug/kg	22.0	4.6	1	12/18/20 08:07	12/18/20 13:37	193-39-5	
1-Methylnaphthalene	<b>&lt;3.2</b>	ug/kg	22.0	3.2	1	12/18/20 08:07	12/18/20 13:37	90-12-0	
2-Methylnaphthalene	<b>&lt;3.2</b>	ug/kg	22.0	3.2	1	12/18/20 08:07	12/18/20 13:37	91-57-6	
Naphthalene	<b>3.0J</b>	ug/kg	22.0	2.1	1	12/18/20 08:07	12/18/20 13:37	91-20-3	
Phenanthrene	<b>7.0J</b>	ug/kg	22.0	2.5	1	12/18/20 08:07	12/18/20 13:37	85-01-8	
Pyrene	<b>10.9J</b>	ug/kg	22.0	3.2	1	12/18/20 08:07	12/18/20 13:37	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	67	%	17-100		1	12/18/20 08:07	12/18/20 13:37	321-60-8	
Terphenyl-d14 (S)	78	%	17-98		1	12/18/20 08:07	12/18/20 13:37	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<b>&lt;15.7</b>	ug/kg	26.3	15.7	1	12/18/20 07:15	12/18/20 12:58	71-43-2	
Ethylbenzene	<b>&lt;15.7</b>	ug/kg	65.8	15.7	1	12/18/20 07:15	12/18/20 12:58	100-41-4	
Methyl-tert-butyl ether	<b>&lt;19.3</b>	ug/kg	65.8	19.3	1	12/18/20 07:15	12/18/20 12:58	1634-04-4	
Toluene	<b>&lt;16.6</b>	ug/kg	65.8	16.6	1	12/18/20 07:15	12/18/20 12:58	108-88-3	
1,2,4-Trimethylbenzene	<b>&lt;19.6</b>	ug/kg	65.8	19.6	1	12/18/20 07:15	12/18/20 12:58	95-63-6	
1,3,5-Trimethylbenzene	<b>&lt;21.2</b>	ug/kg	65.8	21.2	1	12/18/20 07:15	12/18/20 12:58	108-67-8	

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## ANALYTICAL RESULTS

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

**Sample: TOPSOIL-2**      **Lab ID: 40219946002**      Collected: 12/15/20 11:35      Received: 12/16/20 12:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Xylene (Total)	<b>&lt;47.5</b>	ug/kg	197	47.5	1	12/18/20 07:15	12/18/20 12:58	1330-20-7	
m&p-Xylene	<b>&lt;27.8</b>	ug/kg	132	27.8	1	12/18/20 07:15	12/18/20 12:58	179601-23-1	
o-Xylene	<b>&lt;19.7</b>	ug/kg	65.8	19.7	1	12/18/20 07:15	12/18/20 12:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	52-137		1	12/18/20 07:15	12/18/20 12:58	460-00-4	
Toluene-d8 (S)	100	%	56-140		1	12/18/20 07:15	12/18/20 12:58	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	50-150		1	12/18/20 07:15	12/18/20 12:58	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	<b>24.0</b>	%	0.10	0.10	1		12/22/20 17:31		

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## ANALYTICAL RESULTS

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

**Sample: TOPSOIL-3**      **Lab ID: 40219946003**      Collected: 12/15/20 11:45      Received: 12/16/20 12:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP</b>									
Analytical Method: EPA 6010    Preparation Method: EPA 3050									
Pace Analytical Services - Green Bay									
Arsenic	4.2	mg/kg	3.1	1.8	1	12/18/20 07:05	12/21/20 13:43	7440-38-2	
Barium	194	mg/kg	0.61	0.18	1	12/18/20 07:05	12/21/20 13:43	7440-39-3	
Cadmium	<0.16	mg/kg	0.61	0.16	1	12/18/20 07:05	12/21/20 13:43	7440-43-9	
Chromium	23.2	mg/kg	1.2	0.34	1	12/18/20 07:05	12/21/20 13:43	7440-47-3	
Lead	14.9	mg/kg	2.4	0.73	1	12/18/20 07:05	12/21/20 13:43	7439-92-1	
Selenium	<1.6	mg/kg	4.9	1.6	1	12/18/20 07:05	12/21/20 13:43	7782-49-2	
Silver	<0.38	mg/kg	1.2	0.38	1	12/18/20 07:05	12/21/20 13:43	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471    Preparation Method: EPA 7471									
Pace Analytical Services - Green Bay									
Mercury	0.024J	mg/kg	0.042	0.012	1	12/21/20 09:42	12/22/20 08:35	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Pace Analytical Services - Green Bay									
Acenaphthene	<2.7	ug/kg	21.0	2.7	1	12/18/20 08:07	12/18/20 13:54	83-32-9	
Acenaphthylene	<2.6	ug/kg	21.0	2.6	1	12/18/20 08:07	12/18/20 13:54	208-96-8	
Anthracene	<2.6	ug/kg	21.0	2.6	1	12/18/20 08:07	12/18/20 13:54	120-12-7	
Benzo(a)anthracene	8.6J	ug/kg	21.0	2.7	1	12/18/20 08:07	12/18/20 13:54	56-55-3	
Benzo(a)pyrene	8.1J	ug/kg	21.0	2.4	1	12/18/20 08:07	12/18/20 13:54	50-32-8	
Benzo(b)fluoranthene	15.2J	ug/kg	21.0	2.9	1	12/18/20 08:07	12/18/20 13:54	205-99-2	
Benzo(g,h,i)perylene	7.5J	ug/kg	21.0	3.7	1	12/18/20 08:07	12/18/20 13:54	191-24-2	
Benzo(k)fluoranthene	4.9J	ug/kg	21.0	2.7	1	12/18/20 08:07	12/18/20 13:54	207-08-9	
Chrysene	10.7J	ug/kg	21.0	4.0	1	12/18/20 08:07	12/18/20 13:54	218-01-9	
Dibenz(a,h)anthracene	<2.9	ug/kg	21.0	2.9	1	12/18/20 08:07	12/18/20 13:54	53-70-3	
Fluoranthene	18.2J	ug/kg	21.0	2.5	1	12/18/20 08:07	12/18/20 13:54	206-44-0	
Fluorene	<2.5	ug/kg	21.0	2.5	1	12/18/20 08:07	12/18/20 13:54	86-73-7	
Indeno(1,2,3-cd)pyrene	6.1J	ug/kg	21.0	4.4	1	12/18/20 08:07	12/18/20 13:54	193-39-5	
1-Methylnaphthalene	<3.1	ug/kg	21.0	3.1	1	12/18/20 08:07	12/18/20 13:54	90-12-0	
2-Methylnaphthalene	<3.1	ug/kg	21.0	3.1	1	12/18/20 08:07	12/18/20 13:54	91-57-6	
Naphthalene	<2.0	ug/kg	21.0	2.0	1	12/18/20 08:07	12/18/20 13:54	91-20-3	
Phenanthrene	7.3J	ug/kg	21.0	2.4	1	12/18/20 08:07	12/18/20 13:54	85-01-8	
Pyrene	14.0J	ug/kg	21.0	3.1	1	12/18/20 08:07	12/18/20 13:54	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	70	%	17-100		1	12/18/20 08:07	12/18/20 13:54	321-60-8	
Terphenyl-d14 (S)	82	%	17-98		1	12/18/20 08:07	12/18/20 13:54	1718-51-0	
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260    Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Benzene	<14.9	ug/kg	25.1	14.9	1	12/18/20 07:15	12/18/20 18:36	71-43-2	
Ethylbenzene	<14.9	ug/kg	62.6	14.9	1	12/18/20 07:15	12/18/20 18:36	100-41-4	
Methyl-tert-butyl ether	<18.4	ug/kg	62.6	18.4	1	12/18/20 07:15	12/18/20 18:36	1634-04-4	
Toluene	<15.8	ug/kg	62.6	15.8	1	12/18/20 07:15	12/18/20 18:36	108-88-3	
1,2,4-Trimethylbenzene	<18.7	ug/kg	62.6	18.7	1	12/18/20 07:15	12/18/20 18:36	95-63-6	
1,3,5-Trimethylbenzene	<20.2	ug/kg	62.6	20.2	1	12/18/20 07:15	12/18/20 18:36	108-67-8	

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## ANALYTICAL RESULTS

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

**Sample: TOPSOIL-3**      **Lab ID: 40219946003**      Collected: 12/15/20 11:45      Received: 12/16/20 12:00      Matrix: Solid

*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV Med Level Short List</b>									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Pace Analytical Services - Green Bay									
Xylene (Total)	<45.2	ug/kg	188	45.2	1	12/18/20 07:15	12/18/20 18:36	1330-20-7	
m&p-Xylene	<26.4	ug/kg	125	26.4	1	12/18/20 07:15	12/18/20 18:36	179601-23-1	
o-Xylene	<18.8	ug/kg	62.6	18.8	1	12/18/20 07:15	12/18/20 18:36	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	52-137		1	12/18/20 07:15	12/18/20 18:36	460-00-4	
Toluene-d8 (S)	101	%	56-140		1	12/18/20 07:15	12/18/20 18:36	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	50-150		1	12/18/20 07:15	12/18/20 18:36	2199-69-1	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Pace Analytical Services - Green Bay									
Percent Moisture	20.2	%	0.10	0.10	1		12/22/20 17:31		

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

QC Batch: 374284	Analysis Method: EPA 7471
QC Batch Method: EPA 7471	Analysis Description: 7471 Mercury
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219946001, 40219946002, 40219946003

METHOD BLANK: 2163465 Matrix: Solid

Associated Lab Samples: 40219946001, 40219946002, 40219946003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	12/22/20 07:58	

LABORATORY CONTROL SAMPLE: 2163466

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.89	106	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2163467 2163468

Parameter	Units	2163467		2163468		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40219974001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/kg	0.40	1	1	1.2	1.2	78	77	85-115	0	20 M0

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

QC Batch: 374142	Analysis Method: EPA 6010
QC Batch Method: EPA 3050	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219946001, 40219946002, 40219946003

METHOD BLANK: 2162300 Matrix: Solid

Associated Lab Samples: 40219946001, 40219946002, 40219946003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.5	2.5	12/21/20 13:04	
Barium	mg/kg	<0.15	0.50	12/21/20 13:04	
Cadmium	mg/kg	<0.13	0.50	12/21/20 13:04	
Chromium	mg/kg	<0.28	1.0	12/21/20 13:04	
Lead	mg/kg	<0.60	2.0	12/21/20 13:04	
Selenium	mg/kg	<1.3	4.0	12/21/20 13:04	
Silver	mg/kg	<0.31	1.0	12/21/20 13:04	

LABORATORY CONTROL SAMPLE: 2162301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	49.9	100	80-120	
Barium	mg/kg	50	49.0	98	80-120	
Cadmium	mg/kg	50	48.8	98	80-120	
Chromium	mg/kg	50	49.3	99	80-120	
Lead	mg/kg	50	50.1	100	80-120	
Selenium	mg/kg	50	51.3	103	80-120	
Silver	mg/kg	25	24.3	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162302 2162303

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10542406001 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	mg/kg	<1.5	49.6	49.6	47.9	47.0	96	95	75-125	2	20
Barium	mg/kg	16.0	49.6	49.6	75.7	63.8	120	96	75-125	17	20
Cadmium	mg/kg	<0.13	49.6	49.6	47.9	47.1	96	95	75-125	2	20
Chromium	mg/kg	3.3	49.6	49.6	52.7	51.8	100	98	75-125	2	20
Lead	mg/kg	1.3J	49.6	49.6	50.8	49.6	100	97	75-125	2	20
Selenium	mg/kg	<1.3	49.6	49.6	49.0	48.6	99	98	75-125	1	20
Silver	mg/kg	<0.31	24.8	24.8	24.5	24.0	98	97	75-125	2	20

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

QC Batch: 374179 Analysis Method: EPA 8260  
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List  
Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219946001, 40219946002, 40219946003

METHOD BLANK: 2162531 Matrix: Solid

Associated Lab Samples: 40219946001, 40219946002, 40219946003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<14.9	50.0	12/18/20 08:36	
1,3,5-Trimethylbenzene	ug/kg	<16.1	50.0	12/18/20 08:36	
Benzene	ug/kg	<11.9	20.0	12/18/20 08:36	
Ethylbenzene	ug/kg	<11.9	50.0	12/18/20 08:36	
m&p-Xylene	ug/kg	<21.1	100	12/18/20 08:36	
Methyl-tert-butyl ether	ug/kg	<14.7	50.0	12/18/20 08:36	
o-Xylene	ug/kg	<15.0	50.0	12/18/20 08:36	
Toluene	ug/kg	<12.6	50.0	12/18/20 08:36	
Xylene (Total)	ug/kg	<36.1	150	12/18/20 08:36	
1,2-Dichlorobenzene-d4 (S)	%	94	50-150	12/18/20 08:36	
4-Bromofluorobenzene (S)	%	91	52-137	12/18/20 08:36	
Toluene-d8 (S)	%	94	56-140	12/18/20 08:36	

LABORATORY CONTROL SAMPLE: 2162532

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2100	84	70-130	
Ethylbenzene	ug/kg	2500	2110	84	80-120	
m&p-Xylene	ug/kg	5000	4220	84	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1790	72	70-130	
o-Xylene	ug/kg	2500	2100	84	70-130	
Toluene	ug/kg	2500	2060	82	80-120	
Xylene (Total)	ug/kg	7500	6320	84	70-130	
1,2-Dichlorobenzene-d4 (S)	%			86	50-150	
4-Bromofluorobenzene (S)	%			85	52-137	
Toluene-d8 (S)	%			88	56-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162533 2162534

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40219946002 Result	Spike Conc.	Spike Conc.	MS Conc.								
Benzene	ug/kg	<15.7	1650	1650	1580	1600	96	98	70-130	2	20		
Ethylbenzene	ug/kg	<15.7	1650	1650	1590	1630	96	99	80-120	2	20		
m&p-Xylene	ug/kg	<27.8	3290	3290	3200	3270	97	99	70-130	2	20		
Methyl-tert-butyl ether	ug/kg	<19.3	1650	1650	1410	1450	86	88	70-130	3	20		
o-Xylene	ug/kg	<19.7	1650	1650	1580	1610	96	98	70-130	2	20		
Toluene	ug/kg	<16.6	1650	1650	1570	1610	96	98	80-120	2	20		

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

Parameter	Units	2162533		2162534		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40219946002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Xylene (Total)	ug/kg	<47.5	4940	4940	4780	4880	97	99	70-130	2	20		
1,2-Dichlorobenzene-d4 (S)	%							104	101	50-150			
4-Bromofluorobenzene (S)	%							101	99	52-137			
Toluene-d8 (S)	%							101	104	56-140			

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

QC Batch: 374144 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
Laboratory: Pace Analytical Services - Green Bay  
Associated Lab Samples: 40219946001, 40219946002, 40219946003

METHOD BLANK: 2162308 Matrix: Solid  
Associated Lab Samples: 40219946001, 40219946002, 40219946003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.4	16.7	12/18/20 10:52	
2-Methylnaphthalene	ug/kg	<2.4	16.7	12/18/20 10:52	
Acenaphthene	ug/kg	<2.2	16.7	12/18/20 10:52	
Acenaphthylene	ug/kg	<2.1	16.7	12/18/20 10:52	
Anthracene	ug/kg	<2.1	16.7	12/18/20 10:52	
Benzo(a)anthracene	ug/kg	<2.2	16.7	12/18/20 10:52	
Benzo(a)pyrene	ug/kg	<1.9	16.7	12/18/20 10:52	
Benzo(b)fluoranthene	ug/kg	<2.3	16.7	12/18/20 10:52	
Benzo(g,h,i)perylene	ug/kg	<2.9	16.7	12/18/20 10:52	
Benzo(k)fluoranthene	ug/kg	<2.1	16.7	12/18/20 10:52	
Chrysene	ug/kg	<3.1	16.7	12/18/20 10:52	
Dibenz(a,h)anthracene	ug/kg	<2.3	16.7	12/18/20 10:52	
Fluoranthene	ug/kg	<2.0	16.7	12/18/20 10:52	
Fluorene	ug/kg	<2.0	16.7	12/18/20 10:52	
Indeno(1,2,3-cd)pyrene	ug/kg	<3.5	16.7	12/18/20 10:52	
Naphthalene	ug/kg	<1.6	16.7	12/18/20 10:52	
Phenanthrene	ug/kg	<1.9	16.7	12/18/20 10:52	
Pyrene	ug/kg	<2.5	16.7	12/18/20 10:52	
2-Fluorobiphenyl (S)	%	79	17-100	12/18/20 10:52	
Terphenyl-d14 (S)	%	110	17-98	12/18/20 10:52	S3

LABORATORY CONTROL SAMPLE: 2162309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	270	81	58-101	
2-Methylnaphthalene	ug/kg	333	267	80	59-101	
Acenaphthene	ug/kg	333	263	79	62-97	
Acenaphthylene	ug/kg	333	295	88	67-102	
Anthracene	ug/kg	333	297	89	69-120	
Benzo(a)anthracene	ug/kg	333	312	94	59-101	
Benzo(a)pyrene	ug/kg	333	321	96	70-110	
Benzo(b)fluoranthene	ug/kg	333	319	96	66-111	
Benzo(g,h,i)perylene	ug/kg	333	300	90	64-106	
Benzo(k)fluoranthene	ug/kg	333	313	94	65-108	
Chrysene	ug/kg	333	293	88	61-102	
Dibenz(a,h)anthracene	ug/kg	333	312	94	64-120	
Fluoranthene	ug/kg	333	308	92	69-120	
Fluorene	ug/kg	333	279	84	70-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	313	94	66-120	

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

LABORATORY CONTROL SAMPLE: 2162309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/kg	333	245	74	60-95	
Phenanthrene	ug/kg	333	302	91	66-98	
Pyrene	ug/kg	333	280	84	63-120	
2-Fluorobiphenyl (S)	%			90	17-100	
Terphenyl-d14 (S)	%			91	17-98	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2162310 2162311

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40220021007 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	<0.0029 mg/kg	395	395	380	304	96	77	48-101	22	25	
2-Methylnaphthalene	ug/kg	<0.0029 mg/kg	395	395	387	305	98	77	46-101	24	21	R1
Acenaphthene	ug/kg	<0.0026 mg/kg	395	395	316	270	80	68	52-97	16	20	
Acenaphthylene	ug/kg	<0.0025 mg/kg	395	395	324	275	82	69	51-102	16	20	
Anthracene	ug/kg	<0.0025 mg/kg	395	395	335	316	85	80	54-120	6	20	
Benzo(a)anthracene	ug/kg	<0.0026 mg/kg	395	395	342	340	86	86	34-101	0	22	
Benzo(a)pyrene	ug/kg	<0.0023 mg/kg	395	395	337	323	85	82	46-110	5	25	
Benzo(b)fluoranthene	ug/kg	<0.0028 mg/kg	395	395	354	327	90	83	40-111	8	23	
Benzo(g,h,i)perylene	ug/kg	<0.0035 mg/kg	395	395	323	397	82	100	40-120	20	24	
Benzo(k)fluoranthene	ug/kg	<0.0025 mg/kg	395	395	319	315	81	80	47-108	1	24	
Chrysene	ug/kg	<0.0037 mg/kg	395	395	314	310	79	78	35-115	2	20	
Dibenz(a,h)anthracene	ug/kg	<0.0027 mg/kg	395	395	343	402	87	101	46-120	16	21	
Fluoranthene	ug/kg	<0.0023 mg/kg	395	395	344	317	87	80	52-120	8	23	
Fluorene	ug/kg	<0.0024 mg/kg	395	395	329	297	83	75	54-99	10	20	
Indeno(1,2,3-cd)pyrene	ug/kg	<0.0041 mg/kg	395	395	344	406	87	102	46-120	16	22	
Naphthalene	ug/kg	<0.0019 mg/kg	395	395	306	235	77	59	46-95	26	23	R1
Phenanthrene	ug/kg	<0.0023 mg/kg	395	395	340	319	86	81	51-98	7	20	
Pyrene	ug/kg	<0.0029 mg/kg	395	395	364	298	92	75	46-120	20	24	
2-Fluorobiphenyl (S)	%						73	64	17-100			
Terphenyl-d14 (S)	%						80	78	17-98			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

QC Batch: 374129

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219946001

SAMPLE DUPLICATE: 2162241

Parameter	Units	40219972001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.0	5.1	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

QC Batch: 374476

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40219946002, 40219946003

SAMPLE DUPLICATE: 2164337

Parameter	Units	40219841007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.0	25.3	1	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 144-002 RIVERBEND STADIUM

Pace Project No.: 40219946

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 144-002 RIVERBEND STADIUM  
Pace Project No.: 40219946

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40219946001	TOPSOIL-1	EPA 3050	374142	EPA 6010	374300
40219946002	TOPSOIL-2	EPA 3050	374142	EPA 6010	374300
40219946003	TOPSOIL-3	EPA 3050	374142	EPA 6010	374300
40219946001	TOPSOIL-1	EPA 7471	374284	EPA 7471	374396
40219946002	TOPSOIL-2	EPA 7471	374284	EPA 7471	374396
40219946003	TOPSOIL-3	EPA 7471	374284	EPA 7471	374396
40219946001	TOPSOIL-1	EPA 3546	374144	EPA 8270 by SIM	374176
40219946002	TOPSOIL-2	EPA 3546	374144	EPA 8270 by SIM	374176
40219946003	TOPSOIL-3	EPA 3546	374144	EPA 8270 by SIM	374176
40219946001	TOPSOIL-1	EPA 5035/5030B	374179	EPA 8260	374180
40219946002	TOPSOIL-2	EPA 5035/5030B	374179	EPA 8260	374180
40219946003	TOPSOIL-3	EPA 5035/5030B	374179	EPA 8260	374180
40219946001	TOPSOIL-1	ASTM D2974-87	374129		
40219946002	TOPSOIL-2	ASTM D2974-87	374476		
40219946003	TOPSOIL-3	ASTM D2974-87	374476		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Brownfield Environmental

Branch/Location: Beloit, WI

Project Contact: Angelina Arcuri

Phone: (847) 322-1024

Project Number: 144-062

Project Name: Riverbend Stadium

Project State: WI

Sampled By (Print): Angelina Arcuri

Sampled By (Sign): Angelina Arcuri

PO #: Regulatory Program:

Data Package Options (billable) EPA Level III, EPA Level IV, On your sample (billable), NOT needed on your sample

Matrix Codes: A=Air, B=Biota, C=Charcoal, O=Oil, S=Soil, SI=Sludge, W=Water, DW=Drinking Water, GW=Ground Water, SW=Surface Water, WW=Waste Water, WP=Wipe

Table with columns: PAGE LAB #, CLIENT FIELD ID, DATE, TIME, MATRIX. Rows include 001 Topsoil-1, 002 Topsoil-2, 003 Topsoil-3.

Transmit Prelim Rush Results by (complete what you want): Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:



CHAIN OF CUSTODY

RESERVATION CODES: A=None, B=HCL, C=H2SO4, D=HNO3, E=D Water, F=Methanol, G=NaOH, H=Sodium Bisulfate Solution, I=Sodium Thiosulfate, J=Other

FILTERED? (YES/NO) PRESERVATION (CODE)

Table for Analyses Requested with columns: Y/N, Pick Letter, and rows for PVOCs, PAHs, RCRA Metals.

UPPER MIDWEST REGION MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1024946

Quote #:

Mail To Contact: Angelina Arcuri

Mail To Company: Brownfield Environmental

Mail To Address: angelina@brownfieldusa.com

Invoice To Contact: Angelina Arcuri

Invoice To Company: Brownfield Environmental

Invoice To Address: angelina@brownfieldusa.com

Invoice To Phone: CLIENT COMMENTS LAB COMMENTS (Lab Use Only) Profile #

Relinquished By: Angelina Arcuri

Relinquished By: Kelly

Relinquished By: [Signature]

Relinquished By: [Signature]

Relinquished By: [Signature]

Date/Time: 12/15/10 11:25

Date/Time: 12/15/10 11:35

Date/Time: 12/15/10 11:45

Date/Time: 12/15/10 12:00

Date/Time: 12/15/10 12:00

Received By: [Signature]

Received By: [Signature]

Received By: [Signature]

Received By: [Signature]

Received By: [Signature]

Date/Time: 12/15/10 12:00

Date/Time: 12/15/10 12:00

Date/Time: 12/15/10 12:00

Date/Time: 12/15/10 12:00

Date/Time: 12/15/10 12:00

PAGE Project No. 4024946

Receipt Temp = 101 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not-Intact

Version 6.0 08/7/06 ORIGINAL

## Sample Preservation Receipt Form

Client Name: Brownfield Env.

Project # 1829944

Pace Analytical Services, LLC  
 1241 Bellevue Street, Suite 920  
 Green Bay, WI 54304

All containers needing preservation have been checked and noted below:  Yes  No ~~NA~~

Initial when completed:

Date/Time:

Page Lab #	Glass	Plastic	Viols	Jars	General	VOA Viols (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	AG1U											2.5 / 5 / 10
002	BG1U											2.5 / 5 / 10
003	AG1H											2.5 / 5 / 10
004	AG4S											2.5 / 5 / 10
005	AG4U											2.5 / 5 / 10
006	AG5U											2.5 / 5 / 10
007	AG2S											2.5 / 5 / 10
008	BG3U											2.5 / 5 / 10
009	BP1U											2.5 / 5 / 10
010	BP3U											2.5 / 5 / 10
011	BP3B											2.5 / 5 / 10
012	BP3N											2.5 / 5 / 10
013	BP3S											2.5 / 5 / 10
014	VG9A											2.5 / 5 / 10
015	DG9T											2.5 / 5 / 10
016	VG9U											2.5 / 5 / 10
017	VG9H											2.5 / 5 / 10
018	VG9M											2.5 / 5 / 10
019	VG9D											2.5 / 5 / 10
020	JGFU											2.5 / 5 / 10
	JG9U											2.5 / 5 / 10
	WGFU											2.5 / 5 / 10
	WPFU											2.5 / 5 / 10
	SP5T											2.5 / 5 / 10
	ZPLC											2.5 / 5 / 10
	GN											2.5 / 5 / 10

NA

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_  
 Headspace in VOA Viols (>6mm):  Yes  No ~~NA~~ \*if yes look in headspace column

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	VG9A	40 mL clear ascorbic	JGFU	4 oz amber jar unpres
BG1U	1 liter clear glass	BP3U	250 mL plastic unpres	DG9T	40 mL clear vial Na Thio	JG9U	9 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP3B	250 mL plastic NaOH	VG9U	40 mL clear vial unpres	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9H	40 mL clear vial HCL	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3S	250 mL plastic H2SO4	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG5U	100 mL amber glass unpres			VG9D	40 mL clear vial DI	ZPLC	ziploc bag
AG2S	500 mL amber glass H2SO4					GN	9 oz Clear glass jar
BG3U	250 mL clear glass unpres						



Document Name:  
**Sample Condition Upon Receipt (SCUR)**  
 Document No.:  
**ENV-FRM-GBAY-0014-Rev.00**

Document Revised: 26Mar2020  
 Author:  
 Pace Green Bay Quality Office

**Sample Condition Upon Receipt Form (SCUR)**

**Client Name:** Brownfield Env.  
 Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Project #: \_\_\_\_\_

**WO#: 40219946**

Tracking #: 8130 1610 9939  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no  
 Custody Seal on Samples Present:  yes  no Seals intact:  yes  no  
 Packing Material:  Bubble Wrap  Bubble Bags  None  Other  
 Thermometer Used SR - NA Type of Ice:  Wet  Blue  Dry  None  
 Cooler Temperature Uncorr: Kof / Corr: \_\_\_\_\_

Temp Blank Present:  yes  no Biological Tissue is Frozen:  yes  no  
 Temp should be above freezing to 6°C.  
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Person examining contents:  
 Date: 12/16/20 Initials: NO  
 Labeled By Initials: SKW

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>pg #, No Analysis checked</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>12/16/20</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>S</u>		
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments   
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/ Resolution: \_\_\_\_\_

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir