

TABLE 5-11
Groundwater Analytical Data - BTEX, PAHs, Metals, Cyanide
May 2008

Former MGP Site
Champaign, Illinois
AmerenIP

CONSTITUENT	Class 1		UMW-102 5/22/2008	UMW-104 5/22/2008	UMW-105 5/21/2008	UMW-106 5/21/2008	UMW-107 5/20/2008	UMW-108 5/20/2008	UMW-109 5/22/2008	UMW-110 5/21/2008	UMW-111A 5/22/2008	UMW-113 5/20/2008	UMW-114 5/20/2008	UMW-115 5/20/2008	UMW-116 5/20/2008	UMW-117 5/21/2008
	Groundwater Standard	Units														
Benzene	0.005	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.236	<0.0020	<0.0020	0.0132	<0.0020	0.0035	1.320	0.0116	<0.0020	<0.0020
Ethylbenzene	0.70	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0082	<0.0050	<0.0050	0.0387	<0.0050	0.0017	1.230	<0.005	<0.0050	<0.0050
Toluene	1.0	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050	0.0014	<0.0050	<0.005	0.150	<0.005	<0.0050	<0.0050
Xylene (total)	10.0	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.014	<0.0050	<0.0050	0.0353	<0.0050	0.001	1.010	<0.005	<0.0050	<0.0050
<i>Polynuclear Aromatic Hydrocarbons</i>																
<i>8270 SIMS</i>																
Acenaphthene	0.42	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0217	<0.0001	0.00961	0.0729	0.00390	<0.0001	<0.0001
Acenaphthylene	0.21 ⁽¹⁾	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.00024	<0.0001	<0.0001	0.0451	<0.0001	0.00959	0.0217	0.00115	<0.0001	<0.0001
Anthracene	2.10	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	0.00388	<0.0001	0.00027	0.00095	0.00021	<0.0001	<0.0001
Benzo(a)anthracene	0.00013	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00019	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(a)pyrene	0.0002	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(b)fluoranthene	0.00018	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(ghi)perylene	0.21 ⁽¹⁾	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Benzo(k)fluoranthene	0.00017	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Bis(2-ethylhexyl)phthalate	0.006	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002
Chrysene	0.0015	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00012	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Dibenzo(a,h)anthracene	0.0003	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Diethyl phthalate	5.60	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.00100	<0.001	<0.001
Dimethyl phthalate	70.0 ⁽¹⁾	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.00100	<0.001	<0.001
Di-n-butyl phthalate	0.70	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.00100	<0.001	<0.001
Fluoranthene	0.28	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00184	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Fluorene	0.28	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00586	<0.0001	0.00056	0.015	0.00139	<0.0001	<0.0001
Indeno(1,2,3-cd)pyrene	0.00043	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
m,p-Cresol	0.035	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Naphthalene	0.14	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	0.0399	<0.0001	<0.0001	0.00645	<0.0001	0.00068	4.61	<0.00010	<0.0001	0.00015
o-Cresol	0.35	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Phenanthrene	0.21 ⁽¹⁾	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0213	<0.0001	<0.0001	0.00522	<0.00010	<0.0001	<0.0001
Pyrene	0.21	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00244	<0.0001	<0.0001	<0.0005	<0.00010	<0.0001	<0.0001
Total PNA's except Naphthalene	---	mg/L	<0.00013	<0.00013	<0.00013	<0.00013	0.00037	<0.00013	<0.00013	0.102	<0.00013	0.02	0.116	0.00665	<0.00013	<0.00013
<i>Metals</i>																
Arsenic 7060A	0.05	mg/L	0.007	0.0007	<0.003	<0.003	0.0059	<0.003	<0.003	0.0069	<0.003	0.0142	0.0194	0.0107	<0.003	<0.003
Lead 7421	0.0075	mg/L	<0.002	0.0017	<0.002	<0.002	<0.002	<0.002	<0.002	0.0004	<0.002	<0.002	<0.002	<0.002	<0.002	0.0005
Chromium 6010B	0.10	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0166	<0.01	<0.01	<0.01	<0.01	<0.01	0.019	<0.01
Cyanide (total) 9012A	0.20	mg/L	<0.007	0.186	0.098	0.36	0.761	0.043	<0.007	0.916	<0.007	0.965	2.28	2.67	0.004	<0.007

⁽¹⁾ Non-TACO or provisional ROs published by the IEPA.

--- No ROs have been established.

Constituent exceeds Class 1 Groundwater Standards.

<0.0005 Laboratory method detection limit is higher than the Class 1 Groundwater Standards

mg/kg Milligrams per kilogram

<0.0001 Not detected at the detection limit identified.

**TABLE 5-11
Groundwater Analytical Data - BTEX, PAHs, Metals, Cyanide
May 2008**

**Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Class 1		UMW-118	UMW-119	UMW-120	UMW-121	UMW-300	UMW-301	UMW-302	UMW-302D	UMW-303	UMW-303D	UMW-304	UMW-305	UMW-306	UMW-307
	Groundwater Standard	Units	5/22/2008	5/22/2008	5/22/2008	5/21/2008	5/23/2008	5/21/2008	5/21/2008	5/21/2008	5/22/2008	5/22/2008	5/22/2008	7/10/2008	7/10/2008	7/10/2008
Benzene	0.005	mg/L	<0.0020	0.0034	<0.0020	<0.0020	<0.0020	<0.002	1.320	1.33	<0.0020	<0.0020	0.0402	<0.0020	<0.0020	<0.0020
Ethylbenzene	0.70	mg/L	<0.0050	0.0062	<0.0050	<0.0050	<0.0050	<0.005	0.514	0.49	<0.0050	<0.0050	0.450	<0.0050	<0.0050	<0.0050
Toluene	1.0	mg/L	<0.0050	<0.005	<0.0050	<0.0050	<0.0050	<0.005	<0.0500	<0.500	<0.0050	<0.0050	0.0076	<0.0050	<0.0050	<0.0050
Xylene (total)	10.0	mg/L	<0.0050	0.0066	<0.0050	<0.0050	<0.0050	0.0029	0.160	0.150	<0.0050	<0.0050	0.150	<0.0050	<0.0050	<0.0050
<i>Polynuclear Aromatic Hydrocarbons</i>																
<i>8270 SIMS</i>																
Acenaphthene	0.42	mg/L	<0.0001	0.0023	<0.0001	<0.00045	<0.0001	0.00078	<0.0005	0.00011	<0.0001	<0.0001	0.00934	<0.00010	<0.00010	<0.00010
Acenaphthylene	0.21 ⁽¹⁾	mg/L	<0.0001	0.00152	<0.0001	<0.00045	<0.0001	0.00902	0.0007	0.00069	<0.0001	<0.0001	0.00133	<0.00010	<0.00010	<0.00010
Anthracene	2.10	mg/L	<0.0001	0.00014	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(a)anthracene	0.00013	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(a)pyrene	0.0002	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(b)fluoranthene	0.00018	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(ghi)perylene	0.21 ⁽¹⁾	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Benzo(k)fluoranthene	0.00017	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Bis(2-ethylhexyl)phthalate	0.006	mg/L	<0.002	<0.002	<0.002	<0.00909	<0.002	<0.002	<0.01	<0.002	<0.002	<0.002	<0.002	<0.00200	<0.00200	<0.00200
Chrysene	0.0015	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Dibenzo(a,h)anthracene	0.0003	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Diethyl phthalate	5.60	mg/L	<0.001	<0.001	<0.001	<0.00455	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00100	<0.00100	<0.00100
Dimethyl phthalate	70.0 ⁽¹⁾	mg/L	<0.001	<0.001	<0.001	<0.00455	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	0.00062	<0.00100	<0.00100
Di-n-butyl phthalate	0.70	mg/L	<0.001	0.00051	<0.001	<0.00455	<0.001	0.0005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00100	<0.00100	<0.00100
Fluoranthene	0.28	mg/L	<0.0001	0.0003	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Fluorene	0.28	mg/L	<0.0001	0.00068	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	0.0001	<0.00010	<0.00010	<0.00010
Indeno(1,2,3-cd)pyrene	0.00043	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
m,p-Cresol	0.035	mg/L	<0.0001	<0.0001	<0.0001	<0.00045	<0.0001	0.00312	0.00969	0.00996	0.00175	0.0018	0.00391	<0.00010	<0.00010	<0.00010
Naphthalene	0.14	mg/L	<0.0001	0.00092	<0.0001	<0.00045	<0.0001	0.00073	3.36	3.57	0.00009	<0.0001	0.0275	<0.00010	<0.00010	<0.00010
o-Cresol	0.35	mg/L	<0.0001	0.0001	<0.0001	<0.00045	<0.0001	0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Phenanthrene	0.21 ⁽¹⁾	mg/L	<0.0001	0.0001	<0.0001	<0.00045	<0.0001	0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Pyrene	0.21	mg/L	<0.0001	0.00039	<0.0001	<0.00045	<0.0001	0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.00010	<0.00010	<0.00010
Total PNA's except Naphthalene	---	mg/L	<0.00013	0.00532	<0.00013	<0.00059	<0.00013	0.0098	0.0007	0.0008	<0.00013	<0.00013	0.0108	<0.00013	<0.00013	<0.00013
<i>Metals</i>																
Arsenic 7060A	0.05	mg/L	0.0078	0.0012	0.0015	<0.003	0.002	0.0011	0.002	0.0017	0.0023	0.0038	<0.003	0.0016	0.0018	0.003
Lead 7421	0.0075	mg/L	0.0151	0.0015	0.0029	<0.002	0.0006	0.001	<0.002	0.0022	<0.002	0.0004	<0.002	<0.0020	<0.0020	0.0011
Chromium 6010B	0.10	mg/L	0.0266	<0.01	0.0044	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.0100	<0.0100	>0.0100
Cyanide (total) 9012A	0.20	mg/L	0.047	0.013	<0.007	0.415	<0.007	<0.007	0.044	0.045	<0.007	<0.007	0.031	<0.007	0.010	0.016

⁽¹⁾ Non-TACO or provisional ROs published

--- No ROs have been established.

Constituent exceeds Class 1 Groundwater

<0.0005 Laboratory method detection limit is high

mg/kg Milligrams per kilogram

<0.0001 Not detected at the detection limit identified.