

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-800	B-801	B-802	B-802	B-803	B-803	B-804
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B800 (11.5-12.5') 4/14/2008	B801 (25.0-26.0') 4/8/2008	B802 (14.5-15.5') 4/15/2008	B802 (25.0-26.0') 4/15/2008	B803 (21.0-22.0') 5/7/2008	B803 (29.0-30.0') 5/7/2008	B804 (15.0-16.0') 4/8/2008
	Residential	Commercial	Construction	Residential	Commercial	Construction				11.5-12.5	25.0-26.0'	14.5-15.5	25.0-26.0	21.0-22.0	29.0-30.0	15.0-16.0'
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0031	<0.0008	79.9	0.0438	0.158	0.0014	<0.0007
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0017	<0.0039	31.0	<0.0043	4.56	<0.0038	<0.0036
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0058	0.0008	57.6	0.0013	0.32	0.002	<0.0036
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0045	<0.0039	112.0	0.0009	3.5	0.0013	<0.0036
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.035	<0.004	4.66	<0.004	2.96	<0.004	<0.004
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	0.085	<0.004	18.3	<0.004	3.19	<0.004	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.006	<0.004	12.3	<0.004	2.54	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.034	<0.004	7.69	<0.004	1.33	0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.065	<0.004	7.28	<0.004	1.24	<0.004	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.078	<0.004	6.01	<0.004	0.915	<0.004	<0.004
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	0.051	<0.004	2.73	0.005	0.425	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.027	<0.004	2.08	<0.004	0.275	<0.004	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.037	<0.004	7.36	<0.004	1.3	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.015	<0.004	0.982	<0.004	0.119	<0.004	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.040	<0.004	17.4	0.004	2.74	0.004	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.005	<0.004	13.8	<0.004	2.61	<0.004	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.044	<0.004	2.35	<0.004	0.345	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.009	<0.004	78.3	0.017	13.0	0.010	<0.004
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.019	0.004	43.2	0.010	8.16	0.008	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.056	<0.004	21.5	0.007	4.13	0.005	<0.004

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

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil						Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-805	B-806	B-807	B-809	B-811	B-812	B-813
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>						B805 (13.0-14.0')	B806 (11.0-12.0')	B807 (13.0-14.0')	B809 (15.0-16.0')	B811 (11.0-12.0')	B812 (11.0-12.0')	B813 (11.0-12.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/9/2008 13.0-14.0'	4/8/2008 11.0-12.0'	4/8/2008 13.0-14.0'	5/8/2008 15.0-16.0	5/5/2008 11.0-12.0	5/5/2008 11.0-12.0	4/7/2008 11.0-12.0
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0025	0.0023	0.003	0.0018	0.0025	0.0023	0.0029
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0017	0.0018	0.0021	<0.0045	0.0014	0.0016	0.0019
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.006	0.0053	0.0071	0.0029	0.0045	0.0046	0.0053
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0039	0.0046	0.0041	<0.0045	0.0032	0.0036	0.0053
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-814	B-815	B-816	B-817	B-818	B-818	B-819
CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B814 (17.0-18.0') 4/1/2008	B815 (25.0-26.0') 4/7/2008	B816 (19.0-21.0') 4/1/2008	B817 (26.0-27.0') 4/7/2008	B818 (13.0-15.0') 4/1/2008	B818 (24.0-26.0') 4/1/2008	B819 (28.0-29.0') 4/7/2008
	Residential	Commercial	Construction	Residential	Commercial	Construction				17.0-18.0	25.0-26.0	19.0-21.0	26.0-27.0	13.0-15.0	24.0-26.0	28.0-29.0
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.002	0.002	0.0009	0.0555	0.0436	7.05	0.0011
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0062	<0.0043	<0.0042	0.894	0.205	0.058	<0.0043
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0025	0.0022	0.0011	0.194	0.042	0.584	0.0011
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0017	0.0043	<0.0042	1.16	0.972	0.140	<0.0043
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.75	0.038	<0.004
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.06	0.025	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.48	0.037	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.06	0.030	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.42	0.031	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.1	0.024	<0.004
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	0.004	<0.004	<0.004	<0.004	0.739	0.017	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.35	0.008	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.12	0.030	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.179	0.004	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	2.27	0.063	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.36	0.033	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.564	0.012	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	<0.004	0.021	8.10	0.217	<0.004
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	<0.004	0.005	<0.004	0.008	5.23	0.144	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.004	<0.004	<0.004	<0.004	3.34	0.094	<0.004

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-820	B-821	B-822	B-822	B-823	B-824	B-825
CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B820 (25.0-26.0') 4/4/2008 25.0-26.0	B821 (19.0-20.0') 4/4/2008 19.0-20.0'	B822 (13.0-15.0') 4/1/2008 13.0-15.0	B822 (27.0-28.0') 4/1/2008 27.0-28.0	B823 (13.0-15.0') 4/1/2008 13.0-15.0	B824 (23.0-24.0') 4/4/2008 23.0-24.0'	B825 (18.0-19.0') 4/3/2008 18.0-19.0
	Residential	Commercial	Construction	Residential	Commercial	Construction										
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0017	0.0017	0.0038	0.0025	0.0024	0.0013	0.0016
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0046	<0.0045	0.0026	0.0032	0.0058	<0.0041	<0.0046
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0017	0.002	0.0032	0.0025	0.0049	0.0017	0.0024
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	<0.0046	0.0016	0.0049	0.002	0.0087	0.0013	<0.0046
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.160	0.015	<0.004
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.471	0.041	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.602	0.090	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.559	0.081	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.570	0.061	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.279	0.048	<0.004
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.247	0.025	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.297	0.053	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.524	0.069	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.064	0.011	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.983	0.192	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.516	0.077	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	0.193	0.026	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	0.004	0.007	<0.004	<0.020	0.187	<0.004
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.007	<0.004	<0.004	<0.004	2.48	0.288	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	<0.004	<0.004	<0.004	1.49	0.142	<0.004

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-826	B-827	B-827	B-827	B-827	B-828	B-828
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B826 (16.0-17.0')	B827 (12.0-13.0')	B827 (12.0-13.0') DUP	B827 (26.0-28.0')	B828 (12.0-13.0')	B828 (17.0-18.0')	
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/3/2008	4/2/2008	4/2/2008	4/2/2008	4/3/2008	4/3/2008	
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0018	0.0048	0.0042	0.0065	0.0608	0.0015	
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0015	0.0073	0.0065	0.0209	0.182	<0.0043	
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.004	0.0084	0.0097	0.0082	<0.109	0.0015	
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0035	0.0141	0.0144	0.0212	0.284	0.0043	
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	0.184	0.775	0.547	0.043	<0.004	
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.004	0.354	2.54	2.21	0.006	<0.004	
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	0.056	0.681	0.303	<0.004	<0.004	
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.005	0.131	1.81	0.971	<0.004	<0.004	
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	0.074	1.51	0.776	<0.004	<0.004	
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.004	0.076	1.55	0.509	<0.004	<0.004	
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.004	0.038	0.598	0.358	<0.004	<0.004	
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	0.028	0.54	0.519	<0.004	<0.004	
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	0.131	1.74	0.896	<0.004	<0.004	
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	0.010	0.187	0.108	<0.005	<0.004	
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.007	0.402	3.41	1.69	<0.006	<0.004	
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	0.366	2.55	1.21	0.021	<0.004	
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	0.031	0.553	0.317	<0.004	<0.004	
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.006	0.009	0.051	<0.041	0.766	<0.004	
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.012	0.023	1.77	1.18	<0.004	0.004	
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.007	0.553	4.90	2.39	<0.004	<0.004	

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-829	B-830	B-831	B-831	B-832	B-833	B-833
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B829 (21.0-22.0')	B830(28.0-30.0')	B831(10.5-12.0')	B831(18.0-20.0')	B832(20.0-21.0')	B833(10.0-12.0')	B833(10.0-12.0') DUP
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/2/2008	4/3/2008	4/3/2008	4/3/2008	4/4/2008	4/2/2008	4/2/2008
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	14.0	<0.0008	6.87	0.0021	0.0016	15.3	50.7
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0056	<0.0041	17.6	0.0013	<0.0044	6.810	24.0
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0023	0.009	10.6	0.0025	0.0018	42.90	163.0
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0021	<0.0041	54.2	0.0041	0.0011	68.20	255.0
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	29.7	0.006	<0.004	10.1	12.9
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.004	<0.004	10.0	<0.004	<0.004	41.50	57.6
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.004	<0.004	20.0	0.006	<0.004	35.0	40.3
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.004	<0.004	12.3	0.007	<0.004	20.5	26.5
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.004	<0.004	9.94	0.004	<0.004	14.9	19.6
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.004	<0.004	10.2	0.004	<0.004	15.5	21.4
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	3.61	<0.004	<0.004	4.68	5.74
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	4.14	<0.004	<0.004	6.04	8.68
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.004	<0.004	11.1	0.005	<0.004	19.30	24.6
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	1.58	<0.004	<0.004	2.20	2.69
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.004	<0.004	33.5	0.012	<0.004	52.7	66.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.004	<0.004	27.7	0.006	<0.004	44.9	58.9
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	3.64	<0.004	<0.004	5.10	6.72
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.004	<0.004	166.0	0.064	<0.004	201.0	325.0
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	<0.004	<0.004	62.7	0.022	0.004	106.0	117.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.004	<0.004	29.2	0.012	<0.004	45.0	50.6

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-833	B-833	B-834	B-834	B-834	B-835	B-837
CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B833(25.0-26.0')	B833(31.0-32.0')	B834 (11.5-12.5')	B834 (15.0-16.0')	B834 (21.0-22.0')	B835 (28.0-29.0')	B837 (12.0-13.0')
	Residential	Commercial	Construction	Residential	Commercial	Construction				4/2/2008	4/2/2008	4/4/2008	4/4/2008	4/4/2008	4/3/2008	4/14/2008
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	3.19	0.006	0.002	2.03	<0.0266	29.6	0.0033
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	7.16	0.0013	0.0025	1.07	<0.133	15.20	0.0018
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	29.4	0.0056	0.0051	4.46	<0.133	59.10	0.006
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	75.1	0.0037	0.0074	7.59	<0.133	78.10	0.0036
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.091	0.021	7.62	0.255	<0.004	2.47	<0.004
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	0.669	0.023	4.79	1.64	<0.004	13.0	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.078	0.043	7.86	0.677	0.003	8.24	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.013	0.035	6.12	0.480	0.005	6.06	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.009	0.027	6.04	0.486	0.003	4.99	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.01	0.029	4.77	0.381	<0.004	3.41	<0.004
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	0.006	0.014	2.67	0.223	<0.004	1.94	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.004	0.011	1.60	0.132	<0.004	3.92	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.012	0.034	5.63	0.435	0.004	5.22	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	0.004	0.709	0.057	<0.004	0.702	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.038	0.087	12.0	0.943	0.007	15.3	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.299	0.036	7.07	1.03	<0.004	9.55	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.004	0.011	2.05	0.166	<0.004	2.09	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	4.64	0.072	10.6	9.56	0.018	56.0	<0.004
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.249	0.143	28.6	2.90	0.014	25.2	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.031	0.083	15.4	1.32	0.01	12.2	<0.004

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-838	B-838	B-839	B-840	B-843	B-844	B-845
CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B838 (15.0-16.0') 4/4/2008 15.0-16.0	B838 (29.0-30.0') 4/4/2008 29.0-30.0	B839 (16.0-17.0') 4/14/2008 16.0-17.0	B840 (18.0-19.0') 4/15/2008 18.0-19.0	B843 (10.0-11.0') 5/6/2008 10.0-11.0	B844 (15.0-16.0') 5/6/2008 15.0-16.0	B845 (13.0-14.0') 5/6/2008 13.0-14.0
	Residential	Commercial	Construction	Residential	Commercial	Construction										
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	1.96	0.0015	0.0009	0.0016	0.0026	0.64	0.0023
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	2.83	0.0009	<0.0038	<0.0045	0.0018	3.07	0.0014
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	4.33	0.0021	0.0009	0.0014	0.0059	0.25	0.0047
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	10.80	0.0029	<0.0038	<0.0045	0.0044	4.2	0.0035
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	36.8	0.052	<0.004	0.013	0.004	2.49	<0.004
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	12.7	0.021	<0.004	0.03	<0.004	0.684	<0.004
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	27.6	0.045	<0.004	0.029	0.004	1.81	<0.004
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	17.1	0.034	<0.004	0.031	0.011	0.893	<0.004
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	14.1	0.027	<0.004	0.03	0.008	0.847	<0.004
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	14.0	0.028	<0.004	0.032	0.011	0.662	<0.004
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	5.31	0.012	0.005	0.017	0.005	0.325	<0.004
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	5.34	0.01	<0.004	0.011	0.004	0.195	<0.004
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	15.3	0.03	<0.004	0.033	0.008	0.913	<0.004
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	1.79	0.004	<0.004	0.006	<0.004	0.089	<0.004
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	41.2	0.078	<0.004	0.06	0.021	1.88	<0.004
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	31.3	0.049	<0.004	0.028	<0.004	1.70	<0.004
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	5.10	0.011	<0.004	0.012	0.004	0.266	<0.004
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	316.0	0.388	0.008	0.112	0.004	12.70	<0.004
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	79.9	0.149	<0.004	0.117	0.02	6.07	<0.004
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	38.8	0.073	0.004	0.068	0.016	2.71	0.004

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

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

mg/kg Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-846	B-846	B-847	B-847	B-848	B-849	B-850
CONSTITUENT	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B846 (10.0-11.0') 5/7/2008 10.0-11.0	B846 (20.0-21.0') 5/7/2008 20.0-21.0	B847 (22.0-23.0') 5/7/2008 22.0-23.0	B847 (29.0-30.0') 5/7/2008 29.0-30.0	B848 (13.0-14.0') 5/7/2008 13.0-14.0	B849(16.0-17.0') 5/7/2008 16.0-17.0	B850 (16.0-17.0') 5/8/2008 16.0-17.0
	Residential	Commercial	Construction	Residential	Commercial	Construction										
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.205	3.16	1.44	0.0012	0.003	1.2	10.7
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	3.42	<0.0983	62.8	<0.0038	0.0019	6.24	227.0
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.084	<0.0983	12.4	0.0018	0.006	0.89	21.5
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	2.9	<0.0983	75.6	<0.0038	0.0038	5.64	258.0
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	4.19	0.004	0.95	<0.004	<0.004	0.665	65.1
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	0.808	<0.004	4.73	<0.004	<0.004	1.55	229.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	2.10	<0.004	2.36	<0.004	<0.004	1.12	121.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	1.30	<0.004	1.29	<0.004	<0.004	0.67	70.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	1.28	<0.004	1.15	<0.004	<0.004	0.661	69.3
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.979	<0.004	0.905	<0.004	<0.004	0.52	54.5
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	0.471	<0.004	0.356	<0.004	<0.004	0.227	21.8
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.29	<0.004	0.258	<0.004	<0.004	0.161	17.7
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	1.32	<0.004	1.27	<0.004	<0.004	0.661	69.8
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	0.133	<0.004	<0.190	<0.004	<0.004	0.065	6.50
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	2.47	<0.004	2.53	<0.004	<0.004	1.21	154.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	1.91	<0.004	2.5	<0.004	<0.004	1.07	132.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.381	<0.004	0.3	<0.004	<0.004	0.187	19.1
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	12.4	0.013	13.8	0.012	<0.004	5.37	920.0
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	6.29	0.009	8.04	0.006	<0.004	3.54	449.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	3.94	0.005	3.79	<0.004	<0.004	1.84	212.0

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil						Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-850	B-851	B-852	B-853	B-854	B-855	B-501
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>						B850 (25.0-26.0')	B851 (19.0-20.0')	B852 (23.0-24.0')	B852 (29.0-30.0 ft)	B852 (38.0-39.0 ft)	B852 (33.0-34.0 ft)	B-501-15
	Residential	Commercial	Construction	Residential	Commercial	Construction				5/8/2008	5/9/2008	5/9/2008	6/23/2008	6/24/2008	6/26/2008	7/13/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0017	0.0014	0.0016	0.0014	0.0014	0.0012	16.40
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0010	<0.0038	<0.0044	0.0010	<0.0048	<0.0037	2.42
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0025	0.0021	0.0025	0.0020	0.0023	0.0015	6.90
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0031	0.0026	0.0018	0.0041	0.0018	0.0014	16.90
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	39.0
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	0.006	<0.004	<0.004	<0.004	<0.004	<0.004	58.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.005	<0.004	<0.004	<0.004	<0.004	<0.004	130.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.006	<0.004	<0.004	0.005	<0.004	0.005	67.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	68.0
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.003	<0.004	<0.004	<0.004	<0.004	<0.004	72.0
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	22.0
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	21.0
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.004	<0.004	<0.004	0.004	<0.004	0.004	64.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	7.30
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.007	<0.004	<0.004	0.004	<0.004	<0.004	160.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	120.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	24.0
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.013	<0.004	<0.004	<0.004	<0.004	<0.004	920.0
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.018	<0.004	<0.004	0.004	<0.004	0.004	350.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.011	<0.004	<0.004	0.004	<0.004	0.004	160.0

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil									B-501	B-502	B-502	B-503	B-503	B-504	B-504	B-504
	<i>Soil Ingestion</i>			<i>Soil Inhalation</i>			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-501-24 7/13/2004 23'-24'	B-502-12 7/13/2004 11'-12'	B-502-24 7/21/2004 23'-24'	B-503-11 7/13/2004 10'-11'	B-503-19 7/13/2004 18'-19'	B-504-14 7/13/2004 13'-14'	B-504-21 7/14/2004 20'-21'	B-504-28 7/14/2004 27'-28'
	Residential	Commercial	Construction	Residential	Commercial	Construction											
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0016	30.30	0.423	0.223	3.0	15.10	33.10	0.0091
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	<0.0007	25.30	<0.0192	0.372	<0.106	28.50	1.10	0.002
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0016	108.0	<0.0192	0.12	0.835	8.24	8.76	0.0037
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.002	226.0	<0.0192	0.458	<0.106	24.0	3.46	0.0034
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.130	36.0	<0.011	<0.042	5.40	49.0	22.0	0.013
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.140	50.0	<0.011	<0.042	47.0	20.0	150.0	0.014
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.120	64.0	<0.011	<0.042	12.0	34.0	110.0	0.022
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.100	54.0	<0.011	<0.042	31.0	17.0	59.0	0.019
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.096	48.0	<0.011	<0.042	82.0	16.0	66.0	0.019
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.099	56.0	<0.011	<0.042	88.0	12.0	50.0	0.015
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.120	13.0	<0.011	<0.042	23.0	4.90	15.0	<0.011
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.100	17.0	<0.011	<0.042	25.0	4.0	16.0	<0.011
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.110	56.0	<0.011	<0.042	34.0	16.0	62.0	0.021
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.110	5.50	<0.011	<0.042	5.80	1.40	4.60	<0.011
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.100	140.0	<0.011	<0.042	37.0	36.0	120.0	0.033
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.120	120.0	<0.011	<0.042	13.0	48.0	120.0	0.022
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.120	17.0	<0.011	<0.042	21.0	4.70	15.0	<0.011
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	<0.150	680.0	0.026	<0.042	7.70	230.0	330.0	0.16
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	<0.110	270.0	<0.011	<0.042	18.0	120.0	320.0	0.072
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.110	110.0	<0.011	<0.042	60.0	54.0	190.0	0.051

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-505	B-505	B-505	B-506	B-506	B-507	B-507	B-508
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-505-11	B-505-22	B-505-28	B-506-17	B-506-28	B-507-19	B-507-28	B-508-11
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/14/2004	7/14/2004	7/14/2004	7/22/2004	7/22/2004	7/21/2004	7/21/2004	7/21/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	5.04	0.0016	0.003	444.0	0.0023	659.0	0.0061	2.58
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	17.70	0.0015	0.0023	122.0	0.0013	141.0	0.0034	37.1
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.72	0.0043	0.0025	676.0	0.0036	1540.0	0.0143	0.22
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	11.20	0.0042	0.004	549.0	0.004	1300.0	0.0091	19
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	13.0	<0.011	0.02	55.0	<0.130	120.0		48
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	14.0	0.012	0.03	390.0	<0.140	700.0		8.1
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	11.0	<0.011	0.037	160.0	<0.120	410.0		24
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	7.50	<0.011	0.029	79.0	<0.100	260.0		13
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	7.0	<0.011	0.025	92.0	<0.096	240.0		13
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	5.40	<0.011	0.02	73.0	<0.098	170.0		11
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<3.50	<0.011	<0.011	18.0	<0.120	80.0		4.9
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<3.0	<0.011	<0.011	22.0	<0.100	70.0		3.3
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	6.70	<0.011	0.026	72.0	<0.110	240.0		12
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<3.10	<0.011	<0.011	5.60	<0.110	<15.0		<2.500
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	12.0	<0.011	0.051	170.0	<0.100	480.0		27
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	15.0	<0.011	0.044	200.0	<0.120	550.0		35
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<3.40	<0.011	<0.011	17.0	<0.120	64.0		4.3
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	110.0	0.16	0.18	2200.0	<0.150	4600.0		190
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	39.0	0.02	0.13	610.0	<0.110	940.0		78
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	20.0	0.011	0.078	240.0	<0.110	710		39

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-508	B-509	B-509	B-510	B-510	B-512	B-512	B-513	B-513	B-514
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-508-28	B-509-18	B-509-28	B-510-12	B-510-28	B-512-11	B-512-24	B-513-12	B-513-24	B-514-17
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/19/2004	7/21/2004	7/21/2004	7/12/2004	7/12/2004	7/12/2004	7/12/2004	7/12/2004	7/12/2004	7/12/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0014	6.25	0.0007	0.0013	0.001	0.0009	0.0012	0.0018	0.001	333.00
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.001	11.40	<0.0008	<0.0008	<0.0008	<0.0009	<0.0008	0.0015	<0.0008	797.0
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0017	0.55	0.002	0.0018	0.0012	0.0011	0.0012	0.0037	0.001	266.0
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0017	6.63	0.0027	0.001	0.0014	0.0018	0.0012	0.0035	0.001	721.0
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.011	0.086	0.022	<0.010	<0.010	0.18	<0.010	<0.130	<0.031	1500.0
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.011	0.260	0.110	<0.010	0.010	<0.058	<0.010	<0.140	<0.031	400.0
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.011	0.091	0.098	<0.010	<0.010	0.083	<0.010	<0.120	<0.031	600.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.011	0.066	0.072	<0.010	<0.010	<0.058	<0.010	<0.110	<0.031	250.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.011	0.074	0.079	<0.010	<0.010	<0.058	<0.010	<0.097	<0.031	290.0
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.011	0.053	0.058	<0.010	<0.010	<0.058	<0.010	<0.099	<0.031	200.0
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.011	0.036	0.039	<0.010	<0.010	<0.058	<0.010	<0.120	<0.031	100.0
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	0.016	0.017	<0.010	<0.010	<0.058	<0.010	<0.100	<0.031	59.0
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.011	0.066	0.072	<0.010	<0.010	<0.058	<0.010	<0.110	<0.031	260.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	<0.011	<0.011	<0.010	<0.010	<0.058	<0.010	<0.110	<0.031	26.0
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.011	0.120	0.14	<0.010	<0.010	0.066	<0.010	<0.110	<0.031	660.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.011	0.110	0.09	<0.010	<0.010	0.164	<0.010	<0.130	<0.031	840.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	0.027	0.028	<0.010	<0.010	<0.058	<0.010	<0.120	<0.031	84.0
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.03	7.90	0.47	<0.010	<0.010	0.104	<0.010	<0.150	<0.031	7700.0
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.019	0.30	0.31	<0.010	<0.010	0.317	<0.010	<0.110	<0.031	2400.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.011	0.19	0.22	<0.010	<0.010	0.087	<0.010	<0.110	<0.031	1000.0

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-514	B-515	B-515	B-516	B-516	B-550	B-550	B-550	B-551
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-514-28	B-515-19	B-515-32	B-516-14	B-516-24	B-550-11	B-550-16	B-550-28	B-551-16
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/22/2004	7/16/2004	7/16/2004	7/22/2004	7/22/2004	7/20/2004	7/20/2004	7/20/2004	7/20/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0008	29.30	0.0020	5.45	0.0007	1.24	5.810	0.0011	0.0148
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0009	5.73	0.0014	11.40	<0.0008	4.02	1.440	<0.0008	0.042
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0014	35.10	0.0022	1.18	0.0011	0.15	0.798	0.0018	0.0736
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0018	27.60	0.0024	25.30	0.0015	1.93	1.430	0.0014	0.128
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	<0.011	3.0	<0.120	1.90	<0.011	36.0	0.050	<0.011	0.013
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.011	26.0	<0.140	2.80	<0.011	4.70	0.020	<0.011	0.08
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	<0.011	11.0	<0.120	6.0	<0.011	18.0	0.054	<0.011	0.021
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	<0.011	5.80	<0.100	3.0	<0.011	6.70	0.04	<0.011	0.027
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	<0.011	6.50	<0.093	3.60	<0.011	7.50	0.034	<0.011	0.023
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	<0.011	4.50	<0.095	2.50	<0.011	4.90	0.032	<0.011	0.020
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.011	2.10	<0.120	1.20	<0.011	2.0	0.011	<0.011	<0.011
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	1.60	<0.100	0.85	<0.011	1.40	<0.011	<0.011	<0.011
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	<0.011	5.90	<0.110	2.80	<0.011	6.50	0.04	<0.011	0.026
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	0.57	<0.100	0.40	<0.011	0.61	<0.011	<0.011	<0.011
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	<0.011	13.0	<0.100	7.30	<0.011	16.0	0.077	<0.011	0.04
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.011	16.0	<0.120	6.80	<0.011	24.0	0.050	<0.011	0.019
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	1.90	<0.110	1.10	<0.011	1.80	<0.011	<0.011	<0.011
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.085	86.0	<0.150	130.0	0.057	35.0	0.260	0.061	1.50
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	<0.011	38.0	<0.100	18.0	0.018	49.0	0.170	0.021	0.066
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	<0.011	20.0	<0.100	9.50	0.012	20.0	0.10	<0.011	0.058

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

--- No ROs have been established.

Constituent exceeds one or more Tier 1 RO.

<0.004 Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-551	B-553	B-553	B-553	B-554	B-554	B-556	B-556
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-551-28	B-553-15	B-553-24	B-553-32	B-554-18	B-554-32	B-556-20	B-556-28
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/15/2004	7/14/2004	7/14/2004	7/14/2004	7/15/2004	7/15/2004	7/20/2004	7/20/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0026	3.03	97.30	0.0035	5.62	0.0037	3.35	0.0021
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0033	10.10	32.90	0.0015	9.02	0.0048	4.51	0.0023
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0034	16.10	164.0	0.0045	7.78	0.0095	10.40	0.005
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0056	37.30	155.0	0.0036	13.0	0.0178	13.90	0.0046
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.038	16.0	100.0	<0.130	99.0	<0.011	12.0	<0.120
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.011	36.0	660.0	<0.140	230.0	<0.011	52.0	<0.140
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.037	78.0	370.0	<0.120	170.0	<0.011	28.0	<0.120
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.032	51.0	190.0	<0.100	78.0	<0.011	13.0	<0.100
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.029	53.0	190.0	<0.095	86.0	<0.011	17.0	<0.093
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.027	56.0	150.0	<0.097	74.0	<0.011	11.0	<0.096
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	0.013	12.0	58.0	<0.120	13.0	<0.011	3.00	<0.120
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	20.0	49.0	<0.100	26.0	<0.011	3.30	<0.100
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.031	47.0	200.0	<0.110	79.0	<0.011	14.0	<0.110
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	4.0	17.0	<0.100	<5.10	<0.011	0.96	<0.100
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.058	130.0	420.0	<0.100	170.0	<0.011	30.0	<0.100
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	0.036	65.0	560.0	<0.120	240.0	<0.011	31.0	<0.120
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	14.0	52.0	<0.110	14.0	<0.011	2.80	<0.110
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.082	520.0	2600.0	<0.150	1100.0	0.057	240.0	<0.150
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.12	220.0	980.0	<0.110	590.0	0.025	90.0	<0.100
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.076	140.0	590.0	<0.110	240.0	0.011	47.0	<0.100

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

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

Tier 1 Remediation Objectives - Soil										B-557	B-557	B-558	B-558	B-558	B-559	B-559	B-560
CONSTITUENT	Soil Ingestion			Soil Inhalation			Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-557-12	B-557-24	B-558-12	B-558-18	B-558-28	B-559-19	B-559-28	B-560-13
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/20/2004	7/20/2004	7/19/2004	7/19/2004	7/19/2004	7/19/2004	7/19/2004	7/19/2004
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0308	0.0009	0.0095	0.0905	0.0016	0.0014	0.0009	0.0868
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	1.030	<0.0009	0.005	0.0209	0.001	0.0008	<0.0007	18.60
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0099	0.0011	0.0025	0.0713	0.0022	0.0021	0.0013	0.15
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.532	0.0012	0.0521	0.0821	0.0028	0.0022	0.0013	19.10
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	6.20	0.023	0.820	0.042	0.012	<0.011	0.025	72.0
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	1.50	<0.011	0.320	0.4	<0.010	<0.011	0.029	6.30
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	4.20	0.023	0.190	0.019	<0.010	<0.011	<0.011	37.0
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	2.30	0.017	0.140	0.017	<0.010	<0.011	<0.011	17.0
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	1.90	0.014	0.130	0.015	<0.010	<0.011	<0.011	22.0
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	1.60	0.012	0.10	<0.011	<0.010	<0.011	<0.011	16.0
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	0.50	<0.011	0.047	<0.011	<0.010	<0.011	<0.011	4.80
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	0.45	<0.011	0.032	<0.011	<0.010	<0.011	<0.011	5.10
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	2.10	0.016	0.140	0.017	<0.010	<0.011	<0.011	18.0
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.240	<0.011	0.015	<0.011	<0.010	<0.011	<0.011	1.30
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	4.20	0.027	0.430	0.029	0.015	<0.011	<0.011	41.0
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	5.30	0.020	0.320	0.062	<0.010	<0.011	<0.011	44.0
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	0.41	<0.011	0.039	<0.011	<0.010	<0.011	<0.011	4.40
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.45	0.053	0.028	2.5	0.031	0.013	0.016	290.0
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	12.0	0.070	2.10	0.069	0.033	<0.011	<0.011	120.0
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	6.40	0.040	0.630	0.044	0.022	<0.011	<0.011	63.0

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

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.

**TABLE 5-5
BTEX and PAHs - Greater than 10 Feet
Former MGP Site
Champaign, Illinois
AmerenIP**

CONSTITUENT	Tier 1 Remediation Objectives - Soil						Soil Component to Groundwater (Class I)	PAH Background Metropolitan Areas	UNITS	B-560	B-560	B-561	B-561	B-561	B-562	B-562
	<u>Soil Ingestion</u>			<u>Soil Inhalation</u>						B-560-20	B-560-28	B-561-13	B-561-19	B-561-32	B-562-14	B-562-28
	Residential	Commercial	Construction	Residential	Commercial	Construction				7/16/2004 19'-20'	7/16/2004 27'-28'	7/15/2004 12'-13'	7/15/2004 18'-19'	7/15/2004 31'-32'	7/15/2004 13'-14'	7/15/2004 27'-28'
Benzene	12	100	2,300	0.80	1.60	2.20	0.03	---	(mg/kg)	0.0104	0.0023	0.204	0.0033	0.0015	6.26	0.002
Ethylbenzene	7,800	200,000	20,000	400	400	58	13	---	(mg/kg)	0.0021	0.0022	1.60	0.0039	<0.0008	58.50	0.0011
Toluene	16,000	410,000	410	650	650	42	12	---	(mg/kg)	0.0061	0.0028	<0.0866	0.0028	0.0017	0.499	0.0041
Xylene (total)	16,000	410,000	41,000	410	320	5.6	150	---	(mg/kg)	0.0045	0.0039	2.06	0.0056	0.0017	54.30	0.0036
Acenaphthene	4700	120000	120000	----	----	----	570	0.13	(mg/kg)	0.014	0.065	27.0	0.020	<0.011	93.0	0.014
Acenaphthylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	85	0.07	(mg/kg)	<0.011	0.011	3.30	<0.011	<0.011	12.0	<0.011
Anthracene	23000	610000	610000	----	----	----	12000	0.40	(mg/kg)	0.014	0.065	11.0	0.016	<0.011	52.0	<0.011
Benzo(a)anthracene	0.9	8.0	170	----	----	----	2.0	1.80	(mg/kg)	0.019	0.068	5.30	0.012	<0.011	26.0	<0.011
Benzo(a)pyrene	0.09	0.80	17.0	----	----	----	8.0	2.10	(mg/kg)	0.018	0.055	5.50	<0.011	<0.011	22.0	<0.011
Benzo(b)fluoranthene	0.90	8.0	170	----	----	----	5.0	2.10	(mg/kg)	0.015	0.051	3.90	<0.011	<0.011	18.0	<0.011
Benzo(ghi)perylene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	27000	1.70	(mg/kg)	<0.011	0.024	1.50	<0.011	<0.011	6.20	<0.011
Benzo(k)fluoranthene	9.0	78	1700	----	----	----	49.0	1.70	(mg/kg)	<0.011	0.012	1.20	<0.011	<0.011	6.0	<0.011
Chrysene	88	780	17000	----	----	----	160	2.70	(mg/kg)	0.019	0.048	5.90	0.013	<0.011	26.0	<0.011
Dibenzo(a,h)anthracene	0.09	0.8	17.0	----	----	----	2.0	0.42	(mg/kg)	<0.011	<0.011	0.430	<0.011	<0.011	<3.0	<0.011
Fluoranthene	3100	82000	82000	----	----	----	4300	4.10	(mg/kg)	0.029	0.091	9.40	0.020	<0.011	54.0	0.012
Fluorene	3100	82000	82000	----	----	----	560	0.18	(mg/kg)	<0.011	0.059	15.0	0.018	<0.011	66.0	<0.011
Indeno(1,2,3-cd)pyrene	0.90	8.0	170	----	----	----	14.0	1.60	(mg/kg)	<0.011	0.016	1.30	<0.011	<0.011	5.20	<0.011
Naphthalene	1600	41000	4100	170	270	1.8	12.0	0.20	(mg/kg)	0.057	0.20	29.0	0.110	<0.011	320.0	0.041
Phenanthrene	2300 ⁽¹⁾	61000 ⁽¹⁾	61000 ⁽¹⁾	----	----	----	200	2.50	(mg/kg)	0.05	0.20	37.0	0.051	<0.011	170.0	0.037
Pyrene	2300	61000	61000	----	----	----	4200	3.0	(mg/kg)	0.044	0.14	14.0	0.029	<0.011	78.0	0.019

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

--- No ROs have been established.

<0.004 Constituent exceeds one or more Tier 1 RO.

Laboratory method detection limit exceeds one or more Tier 1 RO.

mg/kg Milligrams per kilogram

<0.04 Not detected at the detection limit identified.