

TABLE 3-16
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Tier 1 Remedial Objectives - Soil									Soil Component to Groundwater (Class I)*	MSA Background	UNITS	B-818	B-822	B-835	B-501	B-502
	<u>Ingestion</u>			<u>Inhalation</u>			<u>Indoor Inhalation</u>		B818 (13.0-15.0')				B822 (13.0-15.0)	B835 (28.0-29.0)	B-501-24	B-502-12	
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial	4/1/2008				4/1/2008	4/3/2008	7/13/2004	7/13/2004	
Arsenic	13.0	13.0	61.0	750	1,200	25,000	---	---	30	13	(mg/kg)	9.97	9.99	7.78	3.46	7.47	
Barium	5,500	140,000	14,000	690,000	910,000	870,000	---	---	1,800	110	(mg/kg)	---	---	---	14.7	52	
Cadmium	78	2,000	200	1,800	2,800	59,000	---	---	59	0.6	(mg/kg)	---	---	---	0.1	0.17	
Chromium	230	6,100	4,100	270	420	690	---	---	28	16.2	(mg/kg)	17.3	18.5	12.7	13.6	11.8	
Cyanide ^(a)	1,600	41,000	4,100	---	---	---	---	---	40	0.51	(mg/kg)	2.02	0.25	0.59	---	---	
Lead	400	800	700	---	---	---	---	---	107	36	(mg/kg)	16.2	12.8	9.62	8.07	12.3	
Mercury	23	610	61	10	16	0.10	0.45	0.45	6.4	0.06	(mg/kg)	---	---	---	0.009	0.05	
Selenium	390	10,000	1,000	---	---	---	---	---	3.3	0.48	(mg/kg)	---	---	---	<3.77	<3.85	
Silver	390	10,000	1,000	---	---	---	---	---	39	0.55	(mg/kg)	---	---	---	<0.94	<0.96	

Notes: mg/kg Milligrams per kilogram
(a) Remedial objectives are for amenable cyanide
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
* Based on an average pH of 7.50 for the site.
Analytical result exceeds one or more Tier 1 RO
<3.77 Laboratory method detection limit is higher than one or more remedial objective due to dilution

TABLE 3-16
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Tier 1 Remedial Objectives - Soil									Soil Component to Groundwater (Class I)*	MSA Background	UNITS	B-505	B-506	B-507	B-513	B-515	B-553	
	Ingestion			Inhalation			Indoor Inhalation		Residential				Commercial	B-505-11	B-506-28	B-507-19	B-513-12	B-515-32	B-553-32
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial						7/14/2004	7/22/2004	7/21/2004	7/12/2004	7/16/2004	7/14/2004
Arsenic	13.0	13.0	61.0	750	1,200	25,000	---	---	30	13	(mg/kg)	10.1	4.57	<2.36	4.07	7.64	5.46		
Barium	5,500	140,000	14,000	690,000	910,000	870,000	---	---	1,800	110	(mg/kg)	77.2	20.1	4.88	33.1	13.3	14.6		
Cadmium	78	2,000	200	1,800	2,800	59,000	---	---	59	0.6	(mg/kg)	0.16	<0.20	<0.19	<0.20	0.23	<0.20		
Chromium	230	6,100	4,100	270	420	690	---	---	28	16.2	(mg/kg)	22.3	11.5	2.49	18.2	9.04	10.1		
Cyanide ^(a)	1,600	41,000	4,100	---	---	---	---	---	40	0.51	(mg/kg)	---	---	---	---	---	---		
Lead	400	800	700	---	---	---	---	---	107	36	(mg/kg)	14.9	9.98	3.2	10.9	8.93	8.62		
Mercury	23	610	61	10	16	0.10	0.45	0.45	6.4	0.06	(mg/kg)	0.043	0.008	<0.012	0.006	0.007	0.009		
Selenium	390	10,000	1,000	---	---	---	---	---	3.3	0.48	(mg/kg)	<3.85	<4.00	<3.77	<4.00	<3.85	<4.00		
Silver	390	10,000	1,000	---	---	---	---	---	39	0.55	(mg/kg)	<0.96	<1.00	<0.94	<1.00	<0.96	<1.00		

Notes: mg/kg Milligrams per kilogram
(a) Remedial objectives are for amenable cyanide
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
* Based on an average pH of 7.50 for the site.
Analytical result exceeds one or more Tier 1 RO
<3.77 Laboratory method detection limit is higher than one or more remedial objective due to dilution

TABLE 3-16
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

CONSTITUENT	Tier 1 Remedial Objectives - Soil									Soil Component to Groundwater (Class I)*	MSA Background	UNITS	B-556	B-557	UTB-15	UTB-20	UTB-21	UTB-22	
	<u>Ingestion</u>			<u>Inhalation</u>			<u>Indoor Inhalation</u>		Residential				Commercial	B-556-28	B-557-12	UTB-15-S02	UTB-20-S02	UTB-21-S02	UTB-22-S02
	Residential	Commercial	Construction	Residential	Commercial	Construction	Residential	Commercial						7/20/2004	7/20/2004	12/13/1991	12/11/1991	12/12/1991	12/12/1991
Arsenic	13.0	13.0	61.0	750	1,200	25,000	---	---	---	---	30	13	(mg/kg)	3.69	12.4	---	---	---	---
Barium	5,500	140,000	14,000	690,000	910,000	870,000	---	---	---	---	1,800	110	(mg/kg)	17.2	109	---	---	---	---
Cadmium	78	2,000	200	1,800	2,800	59,000	---	---	---	---	59	0.6	(mg/kg)	<0.19	<0.20	---	---	---	---
Chromium	230	6,100	4,100	270	420	690	---	---	---	---	28	16.2	(mg/kg)	11.4	23.3	---	---	---	---
Cyanide ^(a)	1,600	41,000	4,100	---	---	---	---	---	---	---	40	0.51	(mg/kg)	---	---	<0.25	<0.25	<0.25	<0.25
Lead	400	800	700	---	---	---	---	---	---	---	107	36	(mg/kg)	9.94	19.1	---	---	---	---
Mercury	23	610	61	10	16	0.10	0.45	0.45	---	---	6.4	0.06	(mg/kg)	0.008	0.009	---	---	---	---
Selenium	390	10,000	1,000	---	---	---	---	---	---	---	3.3	0.48	(mg/kg)	<3.77	<4.00	---	---	---	---
Silver	390	10,000	1,000	---	---	---	---	---	---	---	39	0.55	(mg/kg)	<0.94	<1.00	---	---	---	---

Notes: mg/kg Milligrams per kilogram
(a) Remedial objectives are for amenable cyanide
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
* Based on an average pH of 7.50 for the site.
Analytical result exceeds one or more Tier 1 RO
<3.77 Laboratory method detection limit is higher than one or more remedial objective due to dilution

TABLE 3-16
TIER 1 COMPARISON - RCRA METALS AND CYANIDE RESULTS FOR GREATER THAN 10 FT DEPTH
CHAMPAIGN MGP SITE
CHAMPAIGN, ILLINOIS
AMERENIP

Tier 1 Remedial Objectives - Soil											UTB-23	UTB-24	UTB-25	UTB-26		
CONSTITUENT	Residential	<u>Ingestion</u>			<u>Inhalation</u>			<u>Indoor Inhalation</u>		Soil Component to Groundwater (Class I)*	<u>MSA</u> <u>Background</u>	UNITS	UTB-23-S02 12/14/1991 26'-28'	UTB-24-S02 12/15/1991 21'-23'	UTB-25-S02 12/14/1991 26'-28'	UTB-26-S02 12/15/1991 21'-23'
		Arsenic	13.0	13.0	61.0	750	1,200	25,000	---	---	30	13	(mg/kg)	---	---	---
Barium	5,500	140,000	14,000	690,000	910,000	870,000	---	---	1,800	110	(mg/kg)	---	---	---	---	
Cadmium	78	2,000	200	1,800	2,800	59,000	---	---	59	0.6	(mg/kg)	---	---	---	---	
Chromium	230	6,100	4,100	270	420	690	---	---	28	16.2	(mg/kg)	---	---	---	---	
Cyanide ^(a)	1,600	41,000	4,100	---	---	---	---	---	40	0.51	(mg/kg)	<0.25	<0.25	<0.25	<0.25	
Lead	400	800	700	---	---	---	---	---	107	36	(mg/kg)	---	---	---	---	
Mercury	23	610	61	10	16	0.10	0.45	0.45	6.4	0.06	(mg/kg)	---	---	---	---	
Selenium	390	10,000	1,000	---	---	---	---	---	3.3	0.48	(mg/kg)	---	---	---	---	
Silver	390	10,000	1,000	---	---	---	---	---	39	0.55	(mg/kg)	---	---	---	---	

Notes: mg/kg Milligrams per kilogram
(a) Remedial objectives are for amenable cyanide
---- No remediation objective has been established by the IEPA for this constituent for this exposure route
<12 Not detected at the level identified
* Based on an average pH of 7.50 for the site.
Analytical result exceeds one or more Tier 1 RO
<3.77 Laboratory method detection limit is higher than one or more remedial objective due to dilution