

GROUNDWATER DETECTED ANALYTICAL DATA - INORGANICS
2005 TO PRESENT
FORMER FAIRFAX I PLANT
KANSAS CITY, KANSAS

Sample Location:	KDHE Tier 2 Risk-Based Criteria		MW-110	MW-110	MW-119A	MW-119A	MW-122	MW-122	MW-123	MW-124A	MW-124B	
Sample ID:	Non-Residential	Residential	GW-011806-JH-008	GW-011806-JH-008	GW-011806-JH-010	GW-011806-JH-011	DUP-1	W112106KGMW122	W112106KGMW123	GW112806GC005	GW112806GC006	
Sample Date:	WG Pathway	WG Pathway	1/18/2006	1/18/2006	1/18/2006	1/18/2006	11/21/2006	11/21/2006	11/21/2006	11/28/2006	11/28/2006	
Sample Type:			Duplicate			Duplicate	Duplicate					
	Units											
Metals		a	b									
Aluminum	mg/L	NC	NC	--	0.122 J	0.149 J	0.126 J	1.38	1.05	1.03	1.57 J	0.261 J
Arsenic	mg/L	0.01	0.01	--	ND(0.01)	0.0096 J	0.0085 J	0.0064 J	ND(0.02)	0.0141 J ^{ab}	0.0089 J	ND(0.01)
Barium	mg/L	2.0	2.0	--	0.787	0.66	0.631	0.239	0.238	0.426	0.526	0.769
Calcium	mg/L	NC	NC	--	130	205	198	208	207	212	108	125
Calcium (Dissolved)	mg/L	NC	NC	--	140	194	204	--	--	--	--	--
Chromium	mg/L	0.1	0.1	--	ND(0.01)	0.0149	0.0144	ND(0.015)	ND(0.015)	0.0069 J	0.008 J	ND(0.01)
Cobalt	mg/L	NC	NC	--	ND(0.05)	ND(0.05)	ND(0.05)	0.0041 J	0.0037 J	ND(0.05)	ND(0.05)	ND(0.05)
Copper	mg/L	1.3	1.3	--	ND(0.025)	0.0024 J	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)	0.0023 J	ND(0.025)
Iron	mg/L	NC	NC	--	14.9	24.8	24.1	3.8	3.58	12.3	29.1	11.6
Lead	mg/L	0.015	0.015	--	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.015)	ND(0.015)	ND(0.015)	0.0036 J	ND(0.005)
Magnesium	mg/L	NC	NC	--	34.2	52	50.1	48.5	48.2	55.7	37.5	37.1
Magnesium (Dissolved)	mg/L	NC	NC	--	36.8	49	51.6	--	--	--	--	--
Manganese	mg/L	0.05	0.05	--	1.43 ^{ab}	4.28 ^{ab}	4.07 ^{ab}	1.29 ^{ab}	1.29 ^{ab}	1.52 ^{ab}	2.34 ^{ab}	2.32 ^{ab}
Manganese (Dissolved)	mg/L	0.05	0.05	--	1.52 ^{ab}	4.11 ^{ab}	4.33 ^{ab}	--	--	--	--	--
Nickel	mg/L	0.10	0.10	--	ND(0.04)	0.0092 J	0.0095 J	0.0125 J	0.0118 J	0.0064 J	ND(0.04)	ND(0.04)
Potassium	mg/L	NC	NC	--	8.25	8.96	8.59	6.13	6.05	7.96	12.8	14.6
Selenium	mg/L	0.05	0.05	--	ND(0.005)	ND(0.005)	ND(0.005)	0.0083 J	0.0095 J	0.0088 J	ND(0.005)	ND(0.005)
Sodium	mg/L	NC	NC	--	102	45.7	44.1	19.4	19.5	17.3	35.5	115
Thallium	mg/L	NC	NC	--	ND(0.01)	ND(0.01)	ND(0.01)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.01)	0.0059 J
Vanadium	mg/L	0.71	0.11	--	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.025)	ND(0.025)	ND(0.025)	0.0047 J	ND(0.05)
Zinc	mg/L	5	5	--	ND(0.02)	ND(0.02)	ND(0.02)	0.0069 J	0.006 J	0.0111 J	0.0194 J	ND(0.02)
General Chemistry												
Aerobic BTEX Specific Microbial Population	cfu/mL	NC	NC	480	480	30	10	--	--	--	--	--
Ammonia	mg/L	NC	NC	--	1.3	0.4	ND(0.3)	--	--	--	--	--
Nitrate (as N)	mg/L	NC	NC	--	ND(0.10)	0.16	0.21	--	--	--	--	--
Total Heterotropic Bacteria	cfu/mL	NC	NC	7000	7600	140	170	--	--	--	--	--
Total Kjeldahl Nitrogen (TKN)	mg/L	NC	NC	--	2 J	ND(3)	ND(3)	--	--	--	--	--
Total Organic Carbon (TOC)	mg/L	NC	NC	--	5	5	5	--	--	--	--	--

TABLE 2
GROUNDWATER DETECTED ANALYTICAL DATA - INORGANICS
2005 TO PRESENT
FORMER FAIRFAX I PLANT
KANSAS CITY, KANSAS

Sample Location:		KDHE Tier 2 Risk-Based Criteria		TMW-129	TMW-131	TMW-131	TMW-132	TMW-133	TMW-134	TMW-135	TMW-136
Sample ID:		Non-Residential	Residential	GW112806GC004	GW112806GC001	GW112806GC002	GW112706GC005	W112106KGSB133	W112106KGSB134	W112106KGSB135	W112106KGSB136
Sample Date:		WG Pathway	WG Pathway	11/28/2006	11/28/2006	11/28/2006	11/27/2006	11/21/2006	11/21/2006	11/21/2006	11/21/2006
Sample Type:				Duplicate							
	Units										
Metals		a	b								
Aluminum	mg/L	NC	NC	0.49 J	1.2 J	0.913 J	1.75	0.709	0.616	0.285 J	0.328 J
Arsenic	mg/L	0.01	0.01	ND(0.01)	0.0044 J	ND(0.01)	0.0093 J	0.0091 J	0.0087 J	ND(0.02)	0.0109 J ^{ab}
Barium	mg/L	2.0	2.0	0.277	0.285	0.292	0.473	0.321	0.196	0.251	0.326
Calcium	mg/L	NC	NC	148	166	169	182	190	195	171	211
Calcium (Dissolved)	mg/L	NC	NC	--	--	--	--	--	--	--	--
Chromium	mg/L	0.1	0.1	0.0111	0.0147	0.0112	0.0213	ND(0.015)	ND(0.015)	0.0142 J	ND(0.015)
Cobalt	mg/L	NC	NC	0.0025 J	0.0022 J	0.0023 J	0.0042 J	ND(0.05)	ND(0.05)	0.0032 J	0.0044 J
Copper	mg/L	1.3	1.3	ND(0.025)	ND(0.025)	ND(0.025)	0.0034 J	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Iron	mg/L	NC	NC	5.45	14.8	15.3	22.3	7.46	8.5	0.604	8.01
Lead	mg/L	0.015	0.015	ND(0.005)	0.0028 J	ND(0.005)	0.0024 J	ND(0.015)	ND(0.015)	ND(0.015)	ND(0.015)
Magnesium	mg/L	NC	NC	39.1	41.3	42.3	44.6	39.1	41.4	27.4	48.2
Magnesium (Dissolved)	mg/L	NC	NC	--	--	--	--	--	--	--	--
Manganese	mg/L	0.05	0.05	1.69 ^{ab}	1.86 ^{ab}	1.89 ^{ab}	2.51 ^{ab}	1.18 ^{ab}	1.31 ^{ab}	0.641 ^{ab}	1.69 ^{ab}
Manganese (Dissolved)	mg/L	0.05	0.05	--	--	--	--	--	--	--	--
Nickel	mg/L	0.10	0.10	0.0126 J	0.0108 J	0.009 J	0.018 J	0.0041 J	ND(0.04)	0.0188 J	0.0061 J
Potassium	mg/L	NC	NC	9.09	8.89	9.08	11.1	7.49	6.64	5.53	8.76
Selenium	mg/L	0.05	0.05	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.015)	ND(0.015)	0.0161	0.0193
Sodium	mg/L	NC	NC	69.7	35	36.4	37.1	15.9	18.9	12.7	43.8
Thallium	mg/L	NC	NC	ND(0.01)	0.0064 J	ND(0.01)	0.0057 J	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
Vanadium	mg/L	0.71	0.11	ND(0.05)	0.0032 J	0.0024 J	0.0052 J	ND(0.025)	ND(0.025)	ND(0.025)	ND(0.025)
Zinc	mg/L	5	5	0.0103 J	ND(0.02)	ND(0.02)	ND(0.02)	0.0088 J	ND(0.06)	0.0127 J	0.012 J
General Chemistry											
Aerobic BTEX Specific Microbial Population	cfu/mL	NC	NC	--	--	--	--	--	--	--	--
Ammonia	mg/L	NC	NC	--	--	--	--	--	--	--	--
Nitrate (as N)	mg/L	NC	NC	--	--	--	--	--	--	--	--
Total Heterotropic Bacteria	cfu/mL	NC	NC	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen (TKN)	mg/L	NC	NC	--	--	--	--	--	--	--	--
Total Organic Carbon (TOC)	mg/L	NC	NC	--	--	--	--	--	--	--	--

Notes:
ND () - not present at or above the associated value
J - estimated concentration
UJ - estimated reporting limit
NC - no criteria
mg/L - milligrams per liter
Risk-Based Standards for Kansas RSK Manual - 4th version, Appendix A, June 2007
Box denotes exceedence of KDHE criteria
^{ab} The letter a and/or b represents the Risk-Based Standard exceeded, respectively