US EPA RECORDS CENTER REGION 5
484198

GROUNDWATER QUALITY ASSESSMENT - 725.194 b) 2)

Subject site is currently undergoing a groundwater quality assessment, the initial phase of which is scheduled for completion in the Summer of 1985. Results, to date, have not indicated a pattern of hazardous constituent (Appendix VII) migration. Moreover, the hazardous constituents which have been examined are naturally occurring elements that have been periodically observed at elevated levels in both upgradient and downgradient wells. Hazardous constituents being examined include Ba, Cd, CN^-(Total), Cr, Ni and Pb. Highest observed levels of these constituents are as follow:

Parameter	Max Concentration (mg/l)	@ Well	Notes:
Ba	3.95	G 121	Upgradient
Cd	0.025	G 121	Upgradient
CN^-	0.13	G 123	Downgradient (deep)
Cr	0.069	G 121	Upgradient
Ni	0.14	G 121	Upgradient
Pb	0.054	G 121	Upgradient

Observed violations of U.S. EPA primary drinking water standards are as follows:

Parameter	Well #	Concentration (mg/l)	Date	Notes:
Ba	G121	3.95	10-03-84	Upgrad., mean level = 2.008 ppm
Ba	G132	1.52	11-30-84	Downgrad., mean level = 1.245 ppm
Ba	G134	1.68	10-03-84	Downgrad., mean level = 1.03 ppm
Cd	G121	0.025	10-03-84	Upgrad., mean level = 0.00875 ppm
Cd	G120	0.012	6-12-84	Downgrad., mean level = 0.00775 ppm
Cr	G121	0.025	10-03-84	Upgrad., mean level = 0.0196 ppm
Pb	G108	0.073	10-03-84	Center Site, mean = 0.023 ppm
Pb	G112	0.187	6-12-84	Center Site, mean = 0.223 ppm
Pb	G112	0.192	8-06-84	Center Site
Pb	G112	0.55	11-29-84	Center Site
Pb	G121	0.54	10-03-84	Upgrad., mean = 0.137 ppm

NOTE: Upgradient wells G116, G121, and G131 have consistently violated the Drinking Water Standard for Nitrates (see summary sheets).

The only consistently observed violation for a hazardous constituent is for Lead in well G112. This well, located in the center of the site, is cased through 15' of previously deposited refuse. Wells downgradient of G112 have not shown corresponding violations. The highest observed levels of hazardous constituents for which a standard exists have generally been in upgradient well G121.

A summary of analytical results and related work is attached to this section. At this writing, the only conclusions drawn from this work are preliminary in nature. They have been discussed in Part B permit documents submitted to U.S. EPA.

BRIGHTON LANDFILL

Groundwater Quality Assessment
Shallow And Deep Wells

Summary

Chemical Analysis

015

WELL NO. G-101

Sample Date

Parameter (conc.)	6-11-84	8-6-84	10-3-84	11-28-84			Mean	Std. Dev.
Cd (mg/l)	0.006	0.003	0.004	0.006				
Cr (mg/l)	0.005	<0.001	0.003	0.005				
CN^- (mg/l)				0.006				
Ni (mg/l)			0.01	0.02				
Pb (mg/l)	0.004	0.002	0.001	<0.005				
Ba (mg/l)			0.104	0.071				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	1.5	<1.0	10.4	69				
SO_4 (mg/l)	142	222	125	244				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			6.4	6.75				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	864	864	836	791				
S.C. (u ohms/cm)	1075	1100	950	918				

WELL NO. G-102

Sample Date

Parameter (conc.)	6-12-84	8-7-84	10-2-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.009	0.005	0.005	0.007				
Cr (mg/l)	0.008	0.002	0.008	0.006				
CN^- (mg/l)				0.001				
Ni (mg/l)				0.03				
Pb (mg/l)	0.004	0.010	0.001	<0.005				
Ba (mg/l)			0.054	0.076				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	6.4	4.4	14.3	31.5				
SO_4 (mg/l)	64	124	141	128				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			6.[illegible]	8.[illegible]				
TOC (mg/l)			9.3[illegible]					
TOX (mg/l)			0.03[illegible]					
TDS (mg/l)	1532	1402	1602	1495				
S.C. (u ohms/cm)	2000	2250	1949	1160				

0/7

WELL NO. G-103

Sample Date

Parameter (conc.)	6-11-84	8-7-84	10-2-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.006	0.003	0.003	0.005				
Cr (mg/l)	0.012	0.023	0.005	0.004				
CN^- (mg/l)				0.004				
Ni (mg/l)			0.02	0.01				
Pb (mg/l)	0.004	0.006	0.003	<0.005				
Ba (mg/l)			0.082	0.098				
Ca (mg/l)	168	70.2	58.9	56.5				
Mg (mg/l)	127	35.6	34.6	33.7				
K (mg/l)	5.3	3.16	2.20	1.31				
Na (mg/l)	108	101	83.8	75				
Cl (mg/l)	7.8	<1.0	15.7	79				
SO_4 (mg/l)	18	7.5	25	29				
NO_3 (mg/l)	0.35	0.12	0.17	0.18				
Alkalinity (mg/l)	466	460	467	445				
pH	6.5	6.9	6.6	6.52				
TOC (mg/l)	10.9	19.4	1.59	2.6				
TOX (mg/l)	0.06	0.03	0.0125	<0.02				
TDS (mg/l)	636	533	540	492				
S.C. (u ohms/cm)	900	840	807.5	724				

WELL NO. G-104

Sample Date

Parameter (conc.)	6-11-84	8-7-84	10-2-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.005	0.004	0.002	0.00[illegible]				
Cr (mg/l)	0.007	0.018	<0.004	<0.001				
CN^- (mg/l)								
Ni (mg/l)			0.01	0.01				
Pb (mg/l)	0.002	0.011	0.005	0.016				
Ba (mg/l)			0.068	0.28				
Ca (mg/l)	[illegible]	11.6	25.9	46.5				
Mg (mg/l)	<1.0	1.25	11.5	19.6				
K (mg/l)	[illegible]	2.87	4.53	1.67				
Na (mg/l)	46.0	33.9	70	74.6				
Cl (mg/l)	17.6	15.2	[illegible]	34.3				
SO_4 (mg/l)	18	53	18	60				
NO_3 (mg/l)	[illegible]	0.48	0.68	[illegible]				
Alkalinity (mg/l)	[illegible]	71	243	318				
pH	9.1	8.2	7.76	[illegible]				
TOC (mg/l)	8.9	11.6	18.2	[illegible]				
TOX (mg/l)	0.06	0.04	<0.02	[illegible]				
TDS (mg/l)	[illegible]	240	326	418				
S.C. (u ohms/cm)	[illegible]	280	562.5	[illegible]				

WELL NO. G-106

Sample Date

Parameter (conc.)	6/1/84	8-16-84	10-[illegible]	11-30-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.007	[illegible]	0.004				
Cr (mg/l)	[illegible]	0.006	[illegible]	[illegible]				
CN^- (mg/l)				<0.01				
Ni (mg/l)				0.03				
Pb (mg/l)	[illegible]	0.005	0.002	<[illegible]				
Ba (mg/l)			0.047	0.075				
Ca (mg/l)	[illegible]	189	131	89				
Mg (mg/l)	[illegible]	182	80	[illegible]				
K (mg/l)	[illegible]	[illegible]	6.51	4.0				
Na (mg/l)	[illegible]	166	128	[illegible]				
Cl (mg/l)	<1.0	<1.0	3.8	3.8				
SO_4 (mg/l)	[illegible]	[illegible]	735	[illegible]				
NO_3 (mg/l)	[illegible]	0.33	2.09	[illegible]				
Alkalinity (mg/l)	[illegible]	102	513	[illegible]				
pH	[illegible]	7.1	[illegible]	[illegible]				
TOC (mg/l)	[illegible]	601	34.9	[illegible]				
TOX (mg/l)	[illegible]	0.05	0.07	[illegible]				
TDS (mg/l)	[illegible]	2409	1788	[illegible]				
S.C. (u ohms/cm)	[illegible]	[illegible]	1080	[illegible]				

020

WELL NO. G-108

Sample Date

Parameter (conc.)	6-11-84	8-7-84	10-3-84	11-28-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.007	0.005	[illegible]				
Cr (mg/l)	0.004	0.002	0.007	[illegible]				
CN^- (mg/l)								
Ni (mg/l)			0.04	0.03				
Pb (mg/l)	0.008	0.009	0.012	<0.005				
Ba (mg/l)			0.25	0.035				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	45.1	<1.0	12.3	136				
SO_4 (mg/l)	377	1030	380	330				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			6.7	6.7				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	1276	2016	1075	970				
S.C. (u ohms/cm)	1675	2250	1221	831				

M. Rapp Associates Inc.

WELL NO. G-110

Sample Date

Parameter (conc.)	6-12-84	8-6-84	10-2-84	11-30-84			Mean	Std. Dev.
Cd (mg/l)	0.003	0.005	0.003	[illegible]				
Cr (mg/l)	0.005	0.005	0.003	0.004				
CN^- (mg/l)				<0.001				
Ni (mg/l)			<0.01	<0.01				
Pb (mg/l)	0.001	<0.001	0.003	<0.005				
Ba (mg/l)			0.0[illegible]	0.033				
Ca (mg/l)	6[illegible]2	75.1	66.3	54.3				
Mg (mg/l)	31.6	39.3	45.1	38.9				
K (mg/l)	2.1	2.6	2.63	1.32				
Na (mg/l)	41.1	42.2	40.3	34.1				
Cl (mg/l)	7.4	<1.0	6.8	4.7				
SO_4 (mg/l)	7.2		192	149				
NO_3 (mg/l)	2.67	1.77	1.90	2.61				
Alkalinity (mg/l)	265	257	304	248				
pH	7.4	7.6	6.6	6.88				
TOC (mg/l)	[illegible].02	3.81	2.73	5.20				
TOX (mg/l)	0.26	0.04	<0.02	0.05				
TDS (mg/l)	478	452	614	529				
S.C. (u ohms/cm)	650	735	765	[illegible]				

022

WELL NO. G-112

Sample Date

Parameter (conc.)	[illegible]-84	8-6-84	10-3-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.007	0.008	0.006	[illegible]				
Cr (mg/l)	0.030	0.014	0.002	0.026				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			0.01	0.01				
Pb (mg/l)	0.187	0.192	[illegible]	0.55				
Ba (mg/l)			0.059	0.204				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	[illegible].0	38.7	15.7	113				
SO_4 (mg/l)	3.0	5.0	19	13				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			11.6	11.97				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	1230	1417	1440	1241				
S.C. (u ohms/cm)	4400	5250	5800	[illegible]				

McBeane Associates Inc.

WELL NO. G-113

Sample Date

Parameter (conc.)	6-19-84	8-6-84	10-3-84	11-7-84			Mean	Std. Dev.
Cd (mg/l)	0.001	0.002	0.002	0.001				
Cr (mg/l)	0.008	0.005	<0.001	<0.001				
CN^- (mg/l)				0.006				
Ni (mg/l)			0.01	0.01				
Pb (mg/l)	<0.001	<0.001	0.001	<0.005				
Ba (mg/l)			0.061	0.09				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	6.4	<1.0	6.9	7.9				
SO_4 (mg/l)	109	106	110	96				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			8.7	8.82				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	444	432	326	327				
S.C. (u ohms/cm)	640	690	490	540				

WELL NO. G-114

Sample Date

Parameter (conc.)	6-11-84	8-6-84	10-3-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.002	0.000	[illegible]				
Cr (mg/l)	0.018	0.002	0.01[illegible]	0.01				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			0.01	[illegible]				
Pb (mg/l)	0.003	<0.001	0.033	<0.00[illegible]				
Ba (mg/l)			0.25	0.0[illegible]				
Ca (mg/l)	88.3	111	308	81.8				
Mg (mg/l)	70.7	84	156	78.9				
K (mg/l)	1.4	1.83	2.73	0.89				
Na (mg/l)	92	92	181	85.1				
Cl (mg/l)	73.5	2.7	1038	[illegible]				
SO_4 (mg/l)	68	116	42	152				
NO_3 (mg/l)	0.93	0.91	0.57	[illegible]				
Alkalinity (mg/l)	483	453	773	[illegible]				
pH	7.7	7.8	6.7	6.[illegible]				
TOC (mg/l)	8.18	3.37	11.91	[illegible]				
TOX (mg/l)	0.19	0.03	0.13	0.19				
TDS (mg/l)	834	943	3236	874				
S.C. (u ohms/cm)	1275	1450	3100	930				

WELL NO. G-115

Sample Date

Parameter (conc.)	6-11-84	8-6-84	10-3-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.003	0.002	0.001	0.00[illegible]				
Cr (mg/l)	0.006	0.007	0.002	0.00[illegible]				
CN^- (mg/l)				0.005				
Ni (mg/l)			0.02	0.03				
Pb (mg/l)	0.004	<0.001	0.006	<0.00[illegible]				
Ba (mg/l)			0.25	0.18[illegible]				
Ca (mg/l)	4.6	50.7	114	87.7				
Mg (mg/l)	60.5	0.55	70.5	66.6				
K (mg/l)	58.2	151	8.87	[illegible]				
Na (mg/l)	48	320	117	[illegible]				
Cl (mg/l)	[illegible]	20.6	20.8	[illegible]				
SO_4 (mg/l)	[illegible]	236	262	[illegible]				
NO_3 (mg/l)	[illegible]	0.87	0.23	0.19				
Alkalinity (mg/l)	76.4	317	461	432				
pH	7.1	10.1	7.0	7.0[illegible]				
TOC (mg/l)	[illegible]	21.7	10.36	[illegible]				
TOX (mg/l)	[illegible]	0.04	0.18	0.19				
TDS (mg/l)	[illegible]	1140	1160	792				
S.C. (u ohms/cm)	[illegible]	2600	1500	994				

WELL NO. G-116

Sample Date

Parameter (conc.)	6-11-84	8-6-84	10-2-84	[illegible]			Mean	Std. Dev.
Cd (mg/l)	0.001	0.005	0.001	0.01				
Cr (mg/l)	0.007	0.003	<0.001	0.01				
CN^- (mg/l)				<0.001				
Ni (mg/l)			0.01	0.01				
Pb (mg/l)	0.002	<0.001	0.002	<0.005				
Ba (mg/l)			0.075	0.031				
Ca (mg/l)	35	170	64.8	84.6				
Mg (mg/l)	81.1	106	48.[illegible]	57.[illegible]				
K (mg/l)	14.5	1.49	1.82	0.90				
Na (mg/l)	55.3	62.6	43.6	38.9				
Cl (mg/l)	29.9	2.0	16.4	119				
SO_4 (mg/l)	401	955	265	446				
NO_3 (mg/l)	19.9	29.6	9.28	1.56				
Alkalinity (mg/l)	251	229	230	234				
pH	7.3	7.8	6.7	6.72				
TOC (mg/l)	11.31	6.45	8.11	10.11				
TOX (mg/l)	0.31	0.09	0.06	0.02				
TDS (mg/l)	1210	1584	680	871				
S.C. (u ohms/cm)	1425	1600	830	760				

WELL NO. G-117

Sample Date

Parameter (conc.)	6-11-84	8-6-84	10-2-84	11-29-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.004	0.004	0.007				
Cr (mg/l)	0.006	0.003	<0.001	<0.001				
CN^- (mg/l)				0.017				
Ni (mg/l)			<0.01	0.02				
Pb (mg/l)	0.005	0.006	0.003	<0.005				
Ba (mg/l)			0.30	0.082				
Ca (mg/l)	9.7	53.8	96.5	84.1				
Mg (mg/l)	18.0	20.5	22.1	32.0				
K (mg/l)	86.5	4.25	3.91	2.08				
Na (mg/l)	20.7	22.2	95.8	104				
Cl (mg/l)	28.9	21.1	11.8	39				
SO_4 (mg/l)	43	79	505	685				
NO_3 (mg/l)	1.16	3.69	0.35	0.44				
Alkalinity (mg/l)	146	121	214	220				
pH	7.3	8.4	6.8	6.10				
TOC (mg/l)	6.68	7.0	6.28	8.68				
TOX (mg/l)	0.30	0.16	0.03	0.04				
TDS (mg/l)	320	322	100[illegible]	1114				
S.C. (u ohms/cm)	275	470	1040	901				

WELL NO. G-118

Sample Date

Parameter (conc.)	6-12-84	8-6-84	10-2-84	11-30-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.004	0.003	0.005				
Cr (mg/l)	0.008	0.001	<0.001	0.008				
CN^- (mg/l)				<0.01				
Ni (mg/l)			<0.01	<0.01				
Pb (mg/l)	0.006	0.002	0.003	0.025				
Ba (mg/l)			0.09	0.065				
Ca (mg/l)	71.9	77.7	64.1	65.8				
Mg (mg/l)	34.2	35.5	35.0	36.5				
K (mg/l)	2.6	1.33	1.44	0.55				
Na (mg/l)	32.7	31.8	37.3	30.9				
Cl (mg/l)	9.3	<1.0	3.0	17.7				
SO_4 (mg/l)	81	129	12.1	119				
NO_3 (mg/l)	1.31	4.5	3.78	4.5				
Alkalinity (mg/l)	288	258	257	251				
pH	7.2	8.4	6.7	7.44				
TOC (mg/l)	4.24	4.65	7.[illegible]	[illegible]				
TOX (mg/l)	0.30	0.02	<0.[illegible]	<0.02				
TDS (mg/l)	512	493	[illegible]	474				
S.C. (u ohms/cm)	675	660	[illegible]	438				

WELL NO. G-119

Sample Date

Parameter (conc.)	[illegible]84	8-6-84	10-[illegible]84	[illegible]			Mean	Std. Dev.
Cd (mg/l)	[illegible]	0.003	0.002	[illegible]				
Cr (mg/l)	0.012	<0.001	<0.001	[illegible]				
CN^- (mg/l)				0.024				
Ni (mg/l)			<0.01	<0.01				
Pb (mg/l)	0.004	0.003	0.005	<0.005				
Ba (mg/l)			0.048	0.114				
Ca (mg/l)	[illegible]	15.5	18.3	[illegible]				
Mg (mg/l)	<1.0	0.79	1.79	[illegible]				
K (mg/l)	[illegible]	42	16.2	[illegible]				
Na (mg/l)	172	103	77.2	80.1				
Cl (mg/l)	[illegible]	<1.0	6.9	[illegible]				
SO_4 (mg/l)	[illegible]	107	129	[illegible]				
NO_3 (mg/l)	0.49	0.15	0.6[illegible]	[illegible]				
Alkalinity (mg/l)	1480	178	104	[illegible]				
pH	[illegible]	[illegible]	8.9	[illegible]				
TOC (mg/l)	[illegible]	8.4	10.8	8.97				
TOX (mg/l)	[illegible]	0.04	0.1[illegible]	0.02				
TDS (mg/l)	[illegible]	405	376	[illegible]				
S.C. (u ohms/cm)	[illegible]	640	562	[illegible]				

WELL NO. G-120

Sample Date

Parameter (conc.)	12-84	8-6-81	10-5-81	11-18-81			Mean	Std. Dev.
Cd (mg/l)	0.012	0.011	0.001	0.007				
Cr (mg/l)	1.71	0.016	0.001	0.012				
CN^- (mg/l)				0.001				
Ni (mg/l)			<0.01	0.05				
Pb (mg/l)	0.002	0.005	0.003	0.007				
Ba (mg/l)			0.051	0.101				
Ca (mg/l)	601	410	114	341				
Mg (mg/l)	319	194	0.41	83.3				
K (mg/l)	3.9	3.74	17.5	1.41				
Na (mg/l)	386	289	78	170				
Cl (mg/l)	451	1324	25,000	720				
SO_4 (mg/l)	139	189	52	173				
NO_3 (mg/l)	0.18	0.19	0.01	0.13				
Alkalinity (mg/l)	404	334	172	388				
pH	7.8	7.7	7.3	5.96				
TOC (mg/l)	5.79	3.08	24.2	4.41				
TOX (mg/l)	0.82	0.37	<0.01	0.17				
TDS (mg/l)	3810	2879	324	2170				
S.C. (u ohms/cm)	6150	4200	4[illegible]	[illegible]				

WELL NO. G-121

Sample Date

Parameter (conc.)	[illegible]84	8-6-84	10-3-84	[illegible]			Mean	Std. Dev.
Cd (mg/l)	[illegible]2	0.004	0.02[illegible]	[illegible]				
Cr (mg/l)	[illegible]	0.006	0.0[illegible]	[illegible]				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			0.[illegible]	0.02				
Pb (mg/l)	0.002	0.005	0.54	[illegible]				
Ba (mg/l)			3.95	0.066				
Ca (mg/l)	15.8	62.3	174	21				
Mg (mg/l)	20.1	24.6	86	17.2				
K (mg/l)	1.7	1.82	5.01	[illegible]				
Na (mg/l)	[illegible]3	45.6	39.7	51.2				
Cl (mg/l)	[illegible]	5.9	15.6	22.1				
SO_4 (mg/l)	79	100	83	14				
NO_3 (mg/l)	12.3	11.8	5.12	[illegible]				
Alkalinity (mg/l)	118	164	160	41				
pH	6.6	7.7	6.1	5.84				
TOC (mg/l)	[illegible]3	2.64	30.[illegible]	11.28				
TOX (mg/l)	1.32	2.05	0.0[illegible]	<0.12				
TDS (mg/l)	[illegible]	425	36[illegible]	247				
S.C. (u ohms/cm)	600	670	498	349				

WELL NO. G-123

Sample Date

Parameter (conc.)	6-12-84	8-6-84	10-3-84	11-20-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.003	0.004	0.003				
Cr (mg/l)	0.007	0.011	0.005	0.004				
CN^- (mg/l)				0.13				
Ni (mg/l)			0.01	0.03				
Pb (mg/l)	0.01	0.005	0.003	0.000				
Ba (mg/l)			0.19	0.004				
Ca (mg/l)	105	73.8	314	10.3				
Mg (mg/l)	43.3	0.58	115	7.88				
K (mg/l)	12.1	36	3.04	10.4				
Na (mg/l)	8	102	123	89.7				
Cl (mg/l)	9	9.8	49.4	3.95				
SO_4 (mg/l)	26	49.6	143	32				
NO_3 (mg/l)	1	0.31	0.1	0.27				
Alkalinity (mg/l)	164	307	482	800				
pH	9.3	9.8	6.6	9.7				
TOC (mg/l)	13.8	8.4	8.33	9.7				
TOX (mg/l)	0.02	0.04	1.11	0.02				
TDS (mg/l)	352	322	2900	351				
S.C. (u ohms/cm)	750	810	2625	361				

WELL NO. G-124

Sample Date

Parameter (conc.)	[illegible]-12-84	8-6-84	10-2-84	[illegible]			Mean	Std. Dev.
Cd (mg/l)	[illegible]003	0.003	0.0[illegible]	[illegible]				
Cr (mg/l)	[illegible]07	0.001	0.0[illegible]	[illegible]				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			<0.01	0.01				
Pb (mg/l)	0.001	0.004	0.002	<0.005				
Ba (mg/l)			0.12	0.187				
Ca (mg/l)	[illegible]9	2.75	37.7	72.2				
Mg (mg/l)	1.9	0.65	50.8	43.1				
K (mg/l)	67.4	105	9.92	1.01				
Na (mg/l)	155	148	94	[illegible]				
Cl (mg/l)	[illegible]3	7.4	2.0	[illegible]				
SO_4 (mg/l)	56	126	51	153				
NO_3 (mg/l)	[illegible]11	1.24	0.30	[illegible]				
Alkalinity (mg/l)	[illegible]04	308	514	361				
pH	[illegible]2	10.1	7.2	[illegible]				
TOC (mg/l)	[illegible]8	9.23	3.01	[illegible]				
TOX (mg/l)	[illegible]21	0.10	<0.02	<0.02				
TDS (mg/l)	[illegible]24	579	584	573				
S.C. (u ohms/cm)	[illegible]75	1275	8[illegible]	[illegible]				

WELL NO. G-128

Sample Date

Parameter (conc.)	6-11-84	8-7-84	10-2-84	[illegible]			Mean	Std. Dev.
Cd (mg/l)	[illegible]	0.006	0.005	[illegible]				
Cr (mg/l)	[illegible]	0.004	0.011	[illegible]				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			0.05	0.06				
Pb (mg/l)	0.002	0.008	0.001	<0.005				
Ba (mg/l)			0.76	0.78				
Ca (mg/l)	[illegible]	206	231	[illegible]				
Mg (mg/l)	[illegible]	122	141	142				
K (mg/l)	3.6	1.97	2.49	1.26				
Na (mg/l)	220	173	181	[illegible]				
Cl (mg/l)	[illegible]	2.9	43.5	48				
SO_4 (mg/l)	28	45.4	117	[illegible]				
NO_3 (mg/l)	[illegible]	1.45	0.35	[illegible]				
Alkalinity (mg/l)	1082	1038	931	918				
pH	[illegible]	6.9	6.1	6.01				
TOC (mg/l)	[illegible]	27.3	20.6	34.3				
TOX (mg/l)	0.85	0.39	0.3	0.26				
TDS (mg/l)	[illegible]	1516	2982	[illegible]				
S.C. (u ohms/cm)	[illegible]	2325	3000	[illegible]				

WELL NO. G-129

Sample Date

Parameter (conc.)	6-11-84	8-7-84	10-2-84	11-19-84			Mean	Std. Dev.
Cd (mg/l)	[illegible]	0.005	0.003	0.001				
Cr (mg/l)	[illegible]	0.018	0.006	0.001				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			0.01	[illegible]				
Pb (mg/l)	0.002	0.012	0.003	0.008				
Ba (mg/l)			0.50	[illegible]				
Ca (mg/l)	[illegible]	172	204	131				
Mg (mg/l)	[illegible]	52	56.9	48.2				
K (mg/l)	190	3.89	4.35	1.99				
Na (mg/l)	[illegible]	75.2	71.1	[illegible]				
Cl (mg/l)	[illegible]		2.66	45				
SO_4 (mg/l)	[illegible]		58	41				
NO_3 (mg/l)	[illegible]		0.41	[illegible]				
Alkalinity (mg/l)	190		386	416				
pH	[illegible]	7.1	6.3	[illegible]				
TOC (mg/l)	[illegible]		11.51	[illegible]				
TOX (mg/l)	[illegible]		0.04	0.01				
TDS (mg/l)	[illegible]	[illegible]	1046	967				
S.C. (u ohms/cm)	[illegible]	1700	1510	1031				

WELL NO. G-130

Sample Date

Parameter (conc.)	6-12-84	8-6-84	10-3-84	[illegible]			Mean	Std. Dev.
Cd (mg/l)	0.005	0.003	0.002	[illegible]				
Cr (mg/l)	[illegible]	0.005	0.007	[illegible]				
CN^- (mg/l)				0.04				
Ni (mg/l)			<0.01	[illegible]				
Pb (mg/l)	[illegible]	0.004	0.008	<0.005				
Ba (mg/l)			0.064	0.047				
Ca (mg/l)	77.7	88.4	62	[illegible]				
Mg (mg/l)	18.6	42	19.2	47.7				
K (mg/l)	[illegible]	1.96	1.01	0.03				
Na (mg/l)	[illegible]	70	67.4	[illegible]				
Cl (mg/l)	86.8	23.1	18.8	23.7				
SO_4 (mg/l)	[illegible]	181	183	171				
NO_3 (mg/l)	[illegible]	3.47	3.91	[illegible]				
Alkalinity (mg/l)	[illegible]	310	340	311				
pH	[illegible]	7.3	6.4	7.02				
TOC (mg/l)	[illegible]	12.5	3.86	7.52				
TOX (mg/l)	0.24	0.13	0.04	<0.02				
TDS (mg/l)	778	722	690	657				
S.C. (u ohms/cm)	[illegible]	990	84[illegible]	515				

WELL NO. G-131

Sample Date

Parameter (conc.)	6-12-84	8-6-84	10-3-84	11-28-84			Mean	Std. Dev.
Cd (mg/l)	0.006	0.005	0.004	[illegible]				
Cr (mg/l)	0.005	0.001	0.006	[illegible]				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			<0.01	0.03				
Pb (mg/l)	0.001	0.004	0.004	<0.005				
Ba (mg/l)			0.13	0.069				
Ca (mg/l)	123	146	145	106				
Mg (mg/l)	62.2	68	58	60.0				
K (mg/l)	49	67	78.3	67.3				
Na (mg/l)	50.3	52.3	48	49.8				
Cl (mg/l)	<1.0	<1.0	7.4	1.88				
SO_4 (mg/l)	61	175	186	17				
NO_3 (mg/l)	20.83	20.1	16.33	24.07				
Alkalinity (mg/l)	510	484	507	459				
pH	7.5	7.2	6.4	6.79				
TOC (mg/l)	20.9	18.9	17.36	14.02				
TOX (mg/l)	0.16	0.08	<0.02	0.06				
TDS (mg/l)	1012	1004	1010	1003				
S.C. (u ohms/cm)	1200	1325	1500	1343				

WELL NO. G-132

Sample Date

Parameter (conc.)	6-11-84	8-6-84	10-3-84	11-[illegible]			Mean	Std. Dev.
Cd (mg/l)	0.006	0.004	0.003	0.001				
Cr (mg/l)	[illegible]	<0.001	0.002	0.001				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			<0.01	0.01				
Pb (mg/l)	0.003	0.004	0.014	0.005				
Ba (mg/l)			0.97	1.22				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	<1.0	9.3	6.9	5.1				
SO_4 (mg/l)	30	57.3	44	24				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			10.9	12.0				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	1198	439	746	862				
S.C. (u ohms/cm)	3800	1000	2000	2644				

WELL NO. G·133

Sample Date

6·12·84	8·6·84	10·3·81	11·[illegible]·81			Mean	Std. Dev.
[illegible]	0.005	0.00[illegible]	0.00[illegible]				
[illegible]	0.006	0.0[illegible]	0.005				
			0.008				
		0.01	0.03				
	0.007	0.001	0.005				
		0.36	0.28				
2.0	<1.0	3.0	108				
77	125	112	158				
		6.45	6.7				
1020	986	94[illegible]	843				
1375	1000	1290	928				

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WELL NO. G-134

Sample Date

Parameter (conc.)	4-12-84	8-6-84	10-3-84	12-6-84			Mean	Std. Dev.
Cd (mg/l)	[illegible]8	0.007	0.00[illegible]	0.008				
Cr (mg/l)	0.011	0.008	0.011	0.0[illegible]				
CN^- (mg/l)				[illegible]				
Ni (mg/l)			0.01	0.005				
Pb (mg/l)	0.06	0.006	0.00[illegible]	0.013				
Ba (mg/l)			1.68	[illegible]8				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	57.4	32.4	133	15.8				
SO_4 (mg/l)	242	6.9	18	[illegible]				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			6.8	6.97				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	[illegible]10	4612	4818	3808				
S.C. (u ohms/cm)	[illegible]00	5700	4400	2756				

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WELL NO. G-135

Sample Date

Parameter (conc.)	6-12-84	8-6-84	10-3-84	11-7-84			Mean	Std. Dev.
Cd (mg/l)	0.004	0.003	0.003	0.004				
Cr (mg/l)	0.008	0.005	0.00[illegible]	0.002				
CN^- (mg/l)				0.00[illegible]				
Ni (mg/l)			0.02	0.04				
Pb (mg/l)	0.001	0.005	0.002	0.021				
Ba (mg/l)			0.07	0.04				
Ca (mg/l)								
Mg (mg/l)								
K (mg/l)								
Na (mg/l)								
Cl (mg/l)	2.9	<1.0	1.0	4				
SO_4 (mg/l)	13	140	162	178				
NO_3 (mg/l)								
Alkalinity (mg/l)								
pH			7.3	7.27				
TOC (mg/l)								
TOX (mg/l)								
TDS (mg/l)	[illegible]	518	8[illegible]	603				
S.C. (u ohms/cm)	[illegible]	800	75[illegible]	491				

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