

Summary of Leachate Sampling Results

WELL_CODE		LCH SUMP	East Lined Cell	East Lined Cell	LCH SUMP		LCH SUMP	East Lined Cell	East Lined Cell	East Lined Cell (Aerated Sample)	East Lined Cell	LCH SUMP	POND LCH	Average	Min	Max	Typical Minimum	Typical Maximum
WQ_ANA_NO		EJZ208			EZM202		FPQ421					B1836707	CA15880					
SAMPLE_DATE		16-May-17	30-May-17	30-Jul-17	22-Aug-17	09-Nov-17	21-Nov-17	09-Jan-18	24-Apr-18	15-May-18	03-Oct-18	28-Nov-18	30-May-17					
Alkalinity	mg/L	870	1130	1230	1600	1410		991	1480	1220	924	2020	1130	1197.8571	924	1480		
Ammonia	mg/L	28	47.4		68	46.7		46.1	85.1	101	51.6	138	47.4	62.9833	46.1	101	5	100
Anion Sum	meq/L		28.07	28.9		33.8		32.2	38	38.9	33.1				28.07	38.9		
Anion-Cation Balance	%		11.03	3.6		-0.85		-0.3	2.17	-0.67	-1.51				-1.51	11.03		
Antimony	ug/L	1.3					1.1					3.8			0	0		
Arsenic	mg/L	0.012	0.0407	0.0261		0.0443	0.036	0.045	0.11	0.12	0.0466	0.109	0.407	0.0906	0.012	0.407	0.01	0.04
Barium	mg/L	0.13	0.148	0.142		0.167	0.15	0.104	0.142	0.0724	0.117	0.14	0.148	0.1328	0.0724	0.167	0.1	2
Benzene	ug/L	0.67	0.9	0.9		1.1	1.6	0.6	0.8	< 0.5	1		0.9	0.8833	0.6	1.1		
Beryllium	ug/L	<0.5					<0.5					<20		<0.5	0	0		
Bicarbonate	mg/L		1130	1230		1410		991	1480	1220	924		1130	1197.8571	924	1480		
Biological Oxygen Demand	mg/L		1050	595		255		211	442	456	170	304	1050	454.1429	170	1050	0	4000
Boron	mg/L	1.5	2.01	2.4		2.73	2.3	2.31	6.05	7.11	4.81	9.32	2.01	3.8682	1.5	9.32	0.5	10
Bromodichloromethane	ug/L	<0.5					<0.5							<0.5	0	0		
Bromoform	ug/L	<1					<1							<1	0	0		
Bromomethane	ug/L	<0.5					<0.5							<0.5	0	0		
Cadmium	mg/L	<0.1	0.000061	0.000088		0.000018	<0.1	0.000008	0.00005	0.000079	0.000079	<50	0.061	0.0001	0.000008	0.000088	<0.01	<0.01
Calcium	mg/L	280	377	376	390	336	320	330	382	220	325	367	377	327.3333	220	382	100	1000
Carbon tetrachloride	ug/L	<0.2	< 0.2	< 0.2		< 0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2		<0.2	<0.2	0	0		
Carbonate	mg/L		< 2	< 2		< 2		< 2	< 2	< 2	< 2		<2	<0.2	0	0		
Cation sum	meq/L		35.03	31		33.2		32	39.7	38.3	32.1			34.4757	31	39.7		
Chemical Oxygen Demand	mg/L		980	755		470		255	860	960	460	1000	980	677.1429	255	980	150	6000
Chloride	mg/L	120	160	140	170	170		190	260	300	150	272	160	195.7143	140	300	20	2500
Chlorobenzene	ug/L	<0.2					<0.2							<0.2	0	0		
Chloroform	ug/L	<0.2					<0.2							<0.2	0	0		
Chromium	mg/L	0.012	0.0172	0.0135		0.0134	0.012	0.0101	0.0214	0.0273	0.0173	0.033	0.0172	0.0177	0.0101	0.033	<0.01	0.5
Cobalt	mg/L	0.93					0.96					0.05		0.0500	0.05	0.05	0.1	0.08
Conductivity	uS/cm	2400	2680	2994	3500	2990		2730	2780	2880	2790	4650	2680	2834.8571	2680	2994		
Conductivity Calc	µmho/cm		2680	2610		3352		3213	3888	3860	3261	4040		3266.2857	2610	3888		
Copper	mg/L	<.001	0.00652	0.00487		0.00196	<.001	0.00257	0.00462	0.139	0.0584	<.020	0.00652	0.0281	0.00196	0.139	<0.008	10
Dibromochloromethane	ug/L	<0.5					<0.5							<0.5	0	0		

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Dibromoethane,1,2	ug/L	<0.2					<0.2							<0.2	0	0		
Dichlorobenzene,1,2	ug/L	<0.5	< 0.5	< 0.5		< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5		<0.5	<0.5	0	0		
Dichlorobenzene,1,3	ug/L	<0.5					<0.5							<0.5	0	0		
Dichlorobenzene,1,4	ug/L	<0.5	< 0.5	< 0.5		< 0.5	<0.5	< 0.5	< 0.5	< 0.5	< 0.5		<0.5	<0.5	0	0		
Dichloroethane,1,1	ug/L	0.25	1.2	2.9		1	1.2	0.8	0.6	< 0.5	0.9		1.2	1.2333	0.6	2.9		
Dichloroethane,1,2	ug/L	0.75					2							1.3750	1.375	1.375		
Dichloroethene, cis-1,2	ug/L	0.87					3.8							2.3350	2.335	2.335		
Dichloroethene, trans-1,2	ug/L	<0.5					1.8							1.1500	1.15	1.15		
Dichloroethene,1,1	ug/L	<0.2					<0.2							<2	0	0		
Dichloromethane	ug/L	4.1					<2							<2	0	0		
Dichloropropane,1,2	ug/L	<0.2					<0.2							<0.2	0	0		
Dichloropropene,cis-1,3	ug/L	<0.3					<0.3							<0.3	0	0		
Dissolved Organic Carbon	mg/L	270	326	247	430	94		63	269	196	65	276	326	180.0000	63	326		
Ethylbenzene	ug/L	2.2	3.7	5.2		2.5	4.5	0.9	1.7	< 0.5	2.4		3.7	2.7333	0.9	5.2		
Hardness	mg/L		1220	1200		1100		1120	1330	1010	1160	1460	1220	1162.8571	1010	1330	400	2000
Hydrogen Sulphide	mg/L									0.32	4.3			2.3100	0.32	4.3		
Ion Balance	%											3.23	11.03	7.1300	3.23	7.13		
Iron	mg/L	0.1	0.397	1.05	0.2	0.365	0.1	2.01	0.314	0.59	2.59	0.2	0.397	0.6928	0.1	2.59	0.2	5500
Langelier Index	S.I.											1.52		1.5200	1.52	1.52		
Lead	mg/L	0.0005	0.00166	0.0006		0.00051	0.0005	0.00037	0.00127	0.00642	0.00323	0.0002	0.00166	0.0015	0.0002	0.00642	0	5
Magnesium	mg/L	60	67.3	64.2	87	64.6	64	72.9	92.1	113	85.8	133	67.3	75.9889	60	113	16.5	15600
Manganese	mg/L	0.53	0.51	0.513	0.4	0.217	0.3	0.232	0.213	0.0589	1.04	0.55	510	0.4149	0.0589	1.04	0.06	1400
Mercury	ug/L	<0.1	0.00005	0.00001	<	0.00002	<0.1	0.00001	< 0.00001	0.00004	0.00001	<0.02	0.05	0.0000	0.00001	0.00005		
Molybdenum	ug/L	<0.5					<0.5						<100			0		
mp-Xylenes	ug/L	0.45	5.1	6		8.3	7.2	2.6	6.1	< 0.5	7.2		5.1	5.8833	2.6	8.3		
Naphthalene	ug/L	<10	1.2	1.1		1.2	<50	< 0.5	2.1	< 0.5	0.6		1.2	1.2400	0.6	2.1		
Nickel	mg/L	15					11						<100	63.0000	11	63	0.4	3
Nitrate	mg/L	<0.5	0.18	0.08	<0.1	< 0.06		< 0.06	< 0.6	< 0.06	< 0.06	< 0.5	0.18	0.1300	0.08	0.18	<1	0.5
Nitrate + Nitrite	#N/A	<0.5			<0.1									<0.1	0	0		
Nitrite	mg/L	<0.05	0.38	0.34	0.01	0.37		0.08	0.62	0.46	0.36	< 0.5	0.38	0.3729	0.08	0.62	<1	
Organic Nitrogen	mg/L		0.7	3.9		17.2		7.7	8.6	12.5	16		0.7	9.5143	0.7	17.2		
o-Xylene	ug/L	0.21	1.8	2.2		2.7	2.8	1	2.4	< 0.5	3.1		1.8	2.2000	1	3.1		
pH	units	7.66	7.27	7.43	7.16	7.32		7.51	7.62	7.94	7.16	7.17	7.27	7.4643	7.16	7.94		
4AAP-Phenolics	[mg/L]		0.426	0.432		0.505		0.097	0.76	0.994	0.408			0.5174	0.097	0.994		
Phenols	ug/L												426	426.0000	426	426		
Phosphorous	mg/L		0.362	0.414		0.38		0.236	0.688	5.11	1.06	1.29	0.362	1.1786	0.236	5.11		
Potassium	mg/L	61	89.9	73.6	100	93.7	79	104	137	174	87.1	152	89.9	99.9222	61	174		
Selenium	mg/L	<2					<2					<10		<10	<2	<10	0.004	0.004
Silver	ug/L	<0.1					<0.1					0.4		0.2000	<0.1	0.4		
Sodium	mg/L	100	131	115	180	141	130	156	220	313	152	297	131	162.0000	100	313	0	7700

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Styrene	ug/L	<0.5					<0.5							<0.5	<0.5	<0.5		
Sulphate	mg/L	190	48	17	<1	41		340	55	290	500	207	48	184.4286	17	500		
Sulphide	mg/L									3.05	10			6.5250	3.05	10		
Suspended Solids	mg/L		27	10								35	27	18.5000	10	27		
Total Dissolved Solids (calculated)	mg/L		1551	1524		1693		1788	2034	2142	1854	2818		1798.0000	1524	2142		
Tetrachloroethane,1,1,1,2	ug/L	<0.5					<0.5							<0.5	0	0		
Tetrachloroethane,1,1,2,2	ug/L	<0.5					<0.5							<0.5	0	0		
Tetrachloroethene	ug/L	<0.2					<0.2							<0.2	0	0		
Thallium	ug/L	<0.05					<0.05					<0.5		<0.05	0	0		
Toluene	ug/L	2.5	26.3	43.4		203	190	17.8	45.9	< 0.5	31.5		26.3	61.3167	17.8	203		
Total Dissolved Solids (calculated)	mg/L					1693		1788	2034	2142	1854		1551	1902.2000	1693	2142	0	42300
Total Kjeldahl Nitrogen	mg/L	39	48	46.3	67	64		53.8	93.6	114	67.6	147	48.0	69.6143	46.3	114	1	100
trans-1,3-Dichloropropene	ug/L	<0.4					<0.4							<0.4	0	0		
Trichlorethylene	ug/L	<0.2					0.37							0.2850	0.285	0.285		
Trichloroethane,1,1,1	ug/L	<0.2					<0.2							<0.2	0	0		
Trichloroethane,1,1,2	ug/L	<0.5					<0.5							<0.5	0	0		
Vanadium	ug/L	3.3					5					<50		19.4000	<50	3.3		
Vinyl chloride	ug/L	<0.2	< 0.2	0.6		< 0.2	2.7	< 0.2	1	< 0.2	< 0.2		<0.2	0.8000	0.6	1		
Xylenes, Total	ug/L	0.66	6.9	8.2		11	9.9	3.7	8.5	< 0.5	10.3		6.9	8.1000	3.7	11		
Zinc	mg/L	<5	0.05	0.02		0.026	<5	0.009	0.043	0.144	0.363	<50	50	0.0936	0.009	0.363	0	1350