

Project Name: Lake Disappointment
Location: Northern Borefield - Water Analyses

Analyte grouping / Analyte	CAS Nun	Units	Sample date:										LOR						
			03/11/2016	14/10/2016	16/10/2016	20/09/2016	05/11/2016	10/7/2017	5/7/2017	30/6/2017	2/7/2017	28/6/2017	25/6/2017	23/6/2017	20/6/2017	13/05/2016	13/05/2016		
			Client sample ID (1st):	P26	P31	P50	P54	P60	LDMR0817	P26	P31	P54	P50	P60	LDMR0117	LDMR2017	P31 COMP.	P50 COMP.	
			Lab Report Reference :																
			PE111594	PE111594	PE111594			PE117954A	PE117954A	PE117954A	PE117954A	PE117558A	PE117558A	PE117558A	PE117558A	EP1604303	EP1604303		
			LOR																
pH Value		pH Unit	0.1	7.9	7.8	7.9	8.0	7.9	7.9	8.0	7.9					7.8	7.87		
Electrical Conductivity @25C		uS/cm	2	14000	2200	1600	3100	2400	9800	17000	2200	2900				2570	2090		
Total Dissolved Solids @ 180C		mg/L	10	7300	1300	960	1700	1400	5500	9600	1200	1700				1570	1190		
Colour (True)		PCU	1													<1	5		
pH Colour		pH Unit	0.01													7.62	7.66		
Turbidity		NTU	0.1													211	15.3		
Turbidity - Filtered		NTU	0.1													0.1	0.3		
Total Hardness as CaCO3		mg/L	1													386	325		
Hydroxide Alkalinity as CaCO3		mg/L	1													<1	<1		
Carbonate Alkalinity as CaCO3		mg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1				<1	<1		
Bicarbonate Alkalinity as CaCO3		mg/L	5	280	190	200	180	210	320	280	200	190				192	161		
Total Alkalinity as CaCO3		mg/L	5	230	150	160	150	170	260	230	160	150				192	161		
Silicon as SiO2		mg/L	0.1													79.6	80		
Sulphate as SO4 - Turbidimetric		mg/L	1	460	170	120	160	180	470	590	160	140				167	129		
Chloride		mg/L	1	4100	470	310	730	520	2800	5500	480	760				604	476		
Fluoride		mg/L	0.1													0.8	0.6		
Ammonia as N		mg/L	0.01													0.12	0.04		
Nitrite as N		mg/L	0.01													0.08	0.05		
Nitrate as N		mg/L	0.01													7.81	7.27		
Nitrite + Nitrate as N		mg/L	0.01													7.89	7.32		
Total Anions		meq/L	0.01													24.4	19.3		
Total Cations		meq/L	0.01													26.4	21.4		
Ionic Balance		%	0.01													4.01	5.17		
Calcium, Ca		mg/L	0.2	120	88	64	97	86	120	120	81	85	63	97	110	87	1	92	74
Magnesium, Mg		mg/L	0.1	61	35	29	44	41	79	71	34	41	31	50	77	48	1	38	34
Sodium, Na		mg/L	0.5	3000	330	230	490	340	1800	3200	310	430	240	410	810	340	1	414	329
Potassium, K		mg/L	0.1	61	20	19	24	23	45	74	21	23	22	27	40	26	1	26	25
Aluminium, Al		mg/L	0.005	<0.025			<0.005	<0.025	<0.015	<0.005	<0.005	<0.005	<0.005	<0.005	0.025				
Arsenic, As		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	
Barium		mg/L	0.001													0.001	0.066	0.083	
Boron, B		mg/L	0.005	0.84			0.52	0.930	0.770	0.470	0.500	0.410	0.470	0.950	0.480	0.05	0.5	0.46	
Beryllium, Be		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Cadmium, Cd		mg/L	0.0001	0.0009			<0.0001	<0.0005	<0.0003	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	
Cobalt, Co		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	0.001	
Chromium, Cr		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	0.001	<0.001	<0.001	<0.001	<0.001	0.005	0.001	<0.001	<0.001	
Copper, Cu		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	
Iron, Fe		mg/L	0.005	<0.025			<0.005	<0.025	<0.015	<0.005	<0.005	<0.005	<0.005	<0.005	0.025	0.05	<0.05	<0.05	
Manganese, Mn		mg/L	0.001	0.038			0.043	<0.005	0.019	<0.001	<0.001	0.007	0.010	0.007	0.019	0.001	<0.001	0.006	
Molybdenum, Mo		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.004	
Nickel, Ni		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Lead, Pb		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	
Antimony, Sb		mg/L	0.001	<0.005			<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
Selenium, Se		mg/L	0.001	<0.005			0.004	<0.005	<0.003	0.004	0.003	0.003	0.003	0.003	0.002	0.003			
Strontium		mg/L	0.001													0.001	0.85	0.642	
Thorium, Th		mg/L	0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	
Uranium, U		mg/L	0.001	0.011	0.003	0.003	0.006	0.007	0.024	0.013	0.004	0.007	0.004	0.007	0.011	0.004	0.001	0.004	0.004
Zinc, Zn		mg/L	0.005	<0.025			<0.005						<0.005	<0.005	<0.005	0.008			