

Benedict Industries Pty Limited

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2019 Annual

Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 1: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date												
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019	
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	205	240	218	205				210			215			240		
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Barium (Ba)	mg/L		2	2	0.2	0.2	0	0.2							0.2					
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005							0.0005					
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Conductivity	uS/cm		4	4	13100	20000	16700	20000				16900			16800				13100	
Copper (Cu)	mg/L		2	2	0.005	0.03	0	0.005							0.03					
Iron (Fe)	mg/L		2	2	0.005	0.03	0	0.005							0.03					
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Manganese (Mn)	mg/L		4	4	0.02	0.1	0	0.04				0.1			0.02				0.09	
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005			0.00005				0.00005	
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.2	0	0.05				0.05			0.05				0.2	
Nitrogen-Ammonia	mg/L		4	4	0.05	0.2	0	0.05				0.05			0.05				0.2	
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1							0.1					
Phenols	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5							2.5					
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Total Dissolved Solids	mg/L		4	4	8520	13100	10930	13100				11100			11000				8520	
Total Organic Carbon	mg/L		4	4	9	13	12	9				12			12				13	
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50							50						
Zinc (Zn)	mg/L	2	2	0.02	0.02	0	0.02							0.02						
pH	pH	12	12	7.4	8	8	7.8	7.6	8	8	7.6	7.8	7.8	7.4	7.7	7.5	7.9	8		

Sampling frequency

Every month
Every 3 months
Every 6 months

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2019 Annual

Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 2: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date												
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019	
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	200	230	213	200				205			215			230		
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Barium (Ba)	mg/L		2	2	0.2	0.2	0	0.2							0.2					
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005							0.0005					
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Conductivity	uS/cm		4	4	13100	20100	16525	20100				16900			16000				13100	
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Iron (Fe)	mg/L		2	2	0.01	0.06	0	0.06							0.01					
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Manganese (Mn)	mg/L		4	4	0.02	0.1	0	0.05				0.06			0.02				0.1	
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005			0.00005				0.00005	
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.18	0	0.05				0.05			0.05				0.18	
Nitrogen-Ammonia	mg/L		4	4	0.05	0.2	0	0.05				0.05			0.05				0.2	
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1							0.1					
Phenols	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5							2.5					
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Total Dissolved Solids	mg/L		4	4	8560	13100	10790	13100				11000			10500				8560	
Total Organic Carbon	mg/L		4	4	6	12	10	6				10			11				12	
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50							50						
Zinc (Zn)	mg/L	2	2	0.005	0.01	0	0.005							0.01						
pH	pH	12	12	7.2	8	8	8	7.8	7.6	8	8.0	7.7	7.7	7.8	7.2	7.7	7.5	7.4	7.9	

Sampling frequency

Every month
Every 3 months
Every 6 months

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Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 3: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date														
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019			
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	23	58	39	23				43				58			31			
Aluminium (Al)	mg/L		2	2	0.01	0.05	0	0.01								0.05						
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Barium (Ba)	mg/L		2	2	0.05	0.05	0	0.05								0.05						
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005								0.0005						
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Conductivity	uS/cm		4	4	21000	23700	22000	23700				21100				21000				22200		
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Iron (Fe)	mg/L		2	2	0.08	1.2	1	1.2								0.08						
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Manganese (Mn)	mg/L		4	4	0.03	0.18	0	0.1				0.18				0.03				0.12		
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005				0.00005				0.00005		
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.19	0	0.05				0.05				0.05				0.19		
Nitrogen-Ammonia	mg/L		4	4	1.5	1.8	2	1.8				1.5				1.5				1.6		
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1								0.1						
Phenols	mg/L		2	2	0.05	0.05	0	0.05								0.05						
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5								2.5						
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Total Dissolved Solids	mg/L		4	4	12100	15500	13950	15500				13700				12100				14500		
Total Organic Carbon	mg/L		4	4	6	21	11	6				21				9				6		
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50								50							
Zinc (Zn)	mg/L	2	2	0.005	0.03	0	0.005								0.03							
pH	pH	12	12	5.6	6.4	6	5.6	5.9	6.4	6.2	6.2	6.2	6.2	6.3	6.2	6	5.9	6.4	6.3			

Sampling frequency

Every month
Every 3 months
Every 6 months

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Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 4: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date												
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019	
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	4	170	121	150				160			170			4		
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Barium (Ba)	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005							0.0005					
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Conductivity	uS/cm		4	4	14300	21200	18450	21200				20100			18200				14300	
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Iron (Fe)	mg/L		2	2	4.1	5.8	5	5.8							4.1					
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Manganese (Mn)	mg/L		4	4	0.04	0.46	0	0.04				0.46			0.37				0.26	
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005			0.00005				0.00005	
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.05	0	0.05				0.05			0.05				0.05	
Nitrogen-Ammonia	mg/L		4	4	1	2.7	2	2.6				2.7			2.7				1	
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1							0.1					
Phenols	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5							2.5					
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Total Dissolved Solids	mg/L		4	4	9280	13900	12045	13900				13100			11900				9280	
Total Organic Carbon	mg/L		4	4	5	12	8	5				12			10				6	
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50							50						
Zinc (Zn)	mg/L	2	2	0.005	0.02	0	0.005							0.02						
pH	pH	12	12	4.9	6.7	6	6.5	6.3	6.7	6.5	6.4	6.5	6.6	6.2	6	4.9	6.5	6.4		

Sampling frequency

Every month
Every 3 months
Every 6 months

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Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 5: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date															
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019				
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	0.5	11	3	0.5				0.5				11			0.5				
Aluminium (Al)	mg/L		2	2	2.9	11	7	11									2.9						
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0	0.005								0.005						
Barium (Ba)	mg/L		2	2	0.05	0.05	0	0	0.05								0.05						
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0	0.0005								0.0005						
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0	0.005								0.005						
Conductivity	uS/cm		4	4	5810	9300	7570	6540			8630						5810				9300		
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0	0.005								0.005						
Iron (Fe)	mg/L		2	2	34	120	77	34									120						
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0	0.005								0.005						
Manganese (Mn)	mg/L		4	4	5.5	16	11	11			16						5.5				12		
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0	0.00005			0.00005					0.00005				0.00005		
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.05	0	0	0.05			0.05					0.05				0.05		
Nitrogen-Ammonia	mg/L		4	4	0.3	5.9	4	0.3			2.5						5.9				5.3		
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0	0.1								0.1						
Phenols	mg/L		2	2	0.05	0.05	0	0	0.05								0.05						
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5									2.5						
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0	0.005								0.005						
Total Dissolved Solids	mg/L		4	4	3780	6080	4948	4270			5660						3780				6080		
Total Organic Carbon	mg/L		4	4	19	35	30	19			32						35				32		
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50									50							
Zinc (Zn)	mg/L	2	2	0.36	1	1	1									0.36							
pH	pH	12	12	3.9	4.9	5	3.9	4.3	4.6	4.7	4.7	4.9	4.6	4.8	4.7	4.4	4.7	4.9					

Sampling frequency

Every month
Every 3 months
Every 6 months

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Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 7: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date												
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019	
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	200	225	210	200				205			210			225		
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.1							0.05					
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Barium (Ba)	mg/L		2	2	0.1	0.2	0	0.2							0.1					
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005							0.0005					
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Conductivity	uS/cm		4	4	11800	18000	15300	18000				15700			15700				11800	
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Iron (Fe)	mg/L		2	2	0.04	0.23	0	0.04							0.23					
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Manganese (Mn)	mg/L		4	4	0.04	0.6	0	0.60				0.1			0.04				0.21	
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005			0.00005				0.00005	
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.14	0	0.05				0.05			0.05				0.14	
Nitrogen-Ammonia	mg/L		4	4	0.05	0.2	0	0.2				0.05			0.2				0.2	
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1							0.1					
Phenols	mg/L		2	2	0.05	0.05	0	0.05							0.05					
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5							2.5					
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005							0.005					
Total Dissolved Solids	mg/L		4	4	7670	11700	9968	11700				10300			10200				7670	
Total Organic Carbon	mg/L		4	4	6	12	10	6				10			11				12	
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50							50						
Zinc (Zn)	mg/L	2	2	0.005	0.02	0	0.005							0.02						
pH	pH	12	12	6.7	7.6	7	7.4	7.2	7.4	7.6	7.5	7.5	7.1	6.9	7.2	7.4	6.7	7.4		

Sampling frequency

Every month
Every 3 months
Every 6 months

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Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 8: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date														
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019			
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	66	81	76	77				66				78			81			
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.05								0.05						
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Barium (Ba)	mg/L		2	2	0.05	0.05	0	0.05								0.05						
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005								0.0005						
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Conductivity	uS/cm		4	4	7110	22300	15403	15300				7110				22300				16900		
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Iron (Fe)	mg/L		2	2	0.03	0.05	0	0.03								0.05						
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Manganese (Mn)	mg/L		4	4	0.01	0.5	0	0.5				0.07				0.01				0.02		
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005				0.00005				0.00005		
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.24	0.88	1	0.49				0.88				0.24				0.46		
Nitrogen-Ammonia	mg/L		4	4	0.05	0.05	0	0.05				0.05				0.05				0.05		
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1								0.1						
Phenols	mg/L		2	2	0.05	0.05	0	0.05								0.05						
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5								2.5						
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005								0.005						
Total Dissolved Solids	mg/L		4	4	4700	14500	10068	9970				4700				14500				11100		
Total Organic Carbon	mg/L		4	4	2	4	3	3				4				2				2		
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50								50							
Zinc (Zn)	mg/L	2	2	0.005	0.02	0	0.005								0.02							
pH	pH		12	12	7.1	7.5	7	7.3	7.2	7.4	7.5	7.2	7.2	7.1	7.2	7.2	7.2	7.2	7.2	7.4	7.4	

Sampling frequency

Every month
Every 3 months
Every 6 months

Benedict Industries Pty Limited

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2019 Annual

Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 9: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date															
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019				
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	66	82	76	77				66				80			82				
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.05								0.05							
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005								0.005							
Barium (Ba)	mg/L		2	2	0.05	0.05	0	0.05								0.05							
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005								0.0005							
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005								0.005							
Conductivity	uS/cm		4	4	7260	26000	17415	17700				7260				26000				18700			
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005								0.005							
Iron (Fe)	mg/L		2	2	0.005	0.02	0	0.005								0.02							
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005								0.005							
Manganese (Mn)	mg/L		4	4	0.005	0.4	0	0.4				0.06				0.005				0.02			
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005				0.00005				0.00005			
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.23	0.86	1	0.46				0.86				0.23				0.46			
Nitrogen-Ammonia	mg/L		4	4	0.05	0.05	0	0.05				0.05				0.05				0.05			
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1								0.1							
Phenols	mg/L		2	2	0.05	0.05	0	0.05								0.05							
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5								2.5							
Selenium (Se)	mg/L		2	2	0.005	0.005	0	0.005								0.005							
Total Dissolved Solids	mg/L		4	4	4730	17000	11383	11600				4730				17000				12200			
Total Organic Carbon	mg/L		4	4	1	4	2	2				4				1				2			
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50								50								
Zinc (Zn)	mg/L	2	2	0.005	0.01	0	0.005								0.01								
pH	pH	12	12	7.1	7.4	7	7.2	7.2	7.2	7.4	7.3	7.4	7.2	7.1	7.3	7.2	7.2	7.2	7.2	7.4	7.4	7.4	

Sampling frequency

Every month
Every 3 months
Every 6 months

Benedict Industries Pty Limited

Moorebank - 146 Newbridge Road, Moorebank NSW 2170

EPA Licence No: 4612

2019 Annual

Water Monitoring Requirements:

Grab samples are required to be taken every 3/6 months.

Location of Monitoring Points:

Monitoring Point 10: Boreholes labelled on map titled "Location Plan" submitted to the EPA on 14 March 2003.

Summary of Results:

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	No. of Samples Collected & Analysed	Lowest sample value	Highest sample value	Mean of samples	Sample Date														
								8/01/2019	8/02/2019	8/03/2019	8/04/2019	17/05/2019	21/06/2019	17/07/2019	16/08/2019	13/09/2019	14/10/2019	13/11/2019	13/12/2019			
Alkalinity (as CaCO ₃)	mg/L	No limits apply - sampling for monitoring purposes only	4	4	80	155	117	80				155				91			140			
Aluminium (Al)	mg/L		2	2	0.05	0.05	0	0.05									0.05					
Arsenic (As)	mg/L		2	2	0.005	0.005	0	0.005									0.005					
Barium (Ba)	mg/L		2	2	0.05	0.05	0	0.05									0.05					
Cadmium (Cd)	mg/L		2	2	0.0005	0.0005	0	0.0005									0.0005					
Chromium (Cr)	mg/L		2	2	0.005	0.005	0	0.005									0.005					
Conductivity	uS/cm		4	4	440	1060	683	440				1060					530			700		
Copper (Cu)	mg/L		2	2	0.005	0.005	0	0.005									0.005					
Iron (Fe)	mg/L		2	2	0.17	0.3	0	0.3									0.17					
Lead (Pb)	mg/L		2	2	0.005	0.005	0	0.005									0.005					
Manganese (Mn)	mg/L		4	4	0.01	0.07	0	0.03				0.07					0.01			0.03		
Mercury (Hg)	mg/L		4	4	0.00005	0.00005	0	0.00005				0.00005					0.00005			0.00005		
Nitrate + Nitrite (oxidised Nitrogen)	mg/L		4	4	0.05	0.86	0	0.48				0.86					0.05			0.18		
Nitrogen-Ammonia	mg/L		4	4	0.05	0.5	0	0.1				0.5					0.2			0.05		
Organochlorine Pesticides	ug/L		2	2	0.1	0.1	0	0.1									0.1					
Phenols	mg/L		2	2	0.05	0.05	0	0.05									0.05					
Polycyclic Aromatic Hydrocarbons	ug/L		2	2	2.5	2.5	3	2.5									2.5					
Selenium (Se)	mg/L		2	2	0.005	0.01	0	0.005									0.01					
Total Dissolved Solids	mg/L		4	4	290	690	448	290				690					350			460		
Total Organic Carbon	mg/L		4	4	6	10	8	6				8					7			10		
Total Petroleum Hydrocarbons	ug/L	2	2	50	50	50	50									50						
Zinc (Zn)	mg/L	2	2	0.005	0.03	0	0.005									0.03						
pH	pH		12	12	7.1	7.8	8	7.5	7.6	7.8	7.6	7.5	7.6	7.1	7.5	7.4	7.6	7.7	7.5			

Sampling frequency

Every month
Every 3 months
Every 6 months