

Bowral Waste Centre
EPA Licence No: 13366
Monitoring Point 1

(UTM Zone 56: 262017.85 East, 6180632.609 North)

Surface water monitoring and discharge

Discharge point at Southern end of premises as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling Frequency: Daily during discharge

Pollutant	Conductivity	pH	Turbidity
Unit of Measure	µs/cm	pH units	NTU
100 Percentile Concentration Limit	TBD	6.5-8.5	150
Lowest sample value	0	0	0
Highest sample value	0.0	0.0	0.0
Mean of samples	#DIV/0!	#DIV/0!	#DIV/0!
Sample Date	<i>No discharge events in January</i>		

*Below detection limit.

Bowral Waste Centre
EPA Licence No: 13366
Monitoring Point 2

(UTM Zone 56: 262080.407 East, 6180766.636 North)

Leachate Quality Monitoring

Leachate holding dam as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM

Sampling frequency: Yearly

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Results
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	
Aluminium (Al)	mg/L		1	1	
Arsenic (As)	mg/L		1	1	
Barium (Ba)	mg/L		1	1	
Benzene	mg/L		1	1	
Cadmium (Cd)	mg/L		1	1	
Calcium (Ca)	mg/L		1	1	
Chemical Oxygen Demand	mg/L		1	1	
Cobalt	mg/L		1	1	
Chromium (total hexavalent)	mg/L		1	1	
Chromium (total)	mg/L		1	1	
Chloride (Cl)	mg/L		1	1	
Conductivity	(µS/cm)		1	1	
Copper (Cu)	mg/L		1	1	
Dissolved Organic Carbon	mg/L		1	1	
Ethyl Benzene	mg/L		1	1	
Fluoride (F)	mg/L		1	1	
Lead (Pb)	mg/L		1	1	
Magnesium (Mg)	mg/L		1	1	
Manganese(Mn)	mg/L		1	1	
Mercury (Hg)	mg/L		1	1	
Nitrate + Nitrite	mg/L		1	1	
Nitrogen as Ammonia (NH ₃)	mg/L		1	1	
Organochlorine Pesticides	mg/L		1	1	
Organophosphate Pesticides	mg/L		1	1	
pH	pH Units		1	1	
Phosphate (PO ₄)	mg/L		1	1	
Phosphorus (P)	mg/L		1	1	
Polychlorinated biphenyls (mg/L)	mg/L		1	1	
Polycyclic Aromatic Hydrocarbons (mg/L)	mg/L		1	1	
Potassium (K)	mg/L		1	1	
Sodium (Na)	mg/L		1	1	
Sulfate (SO ₄)	mg/L		1	1	
Toluene	mg/L	1	1		
Total Iron (Fe)	mg/L	1	1		
Total Petroleum Hydrocarbons	mg/L	1	1		
Total Phenolics	mg/L	1	1		
Xylene	mg/L	1	1		
Zinc (Zn)	mg/L	1	1		

*BDL*Below detection limit.*

Bowral Waste Centre

EPA Licence No: 13366

Monitoring Point 3

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	0	0	#DIV/0!		
Aluminium (Al)	mg/L		1	1	0	0	#DIV/0!		
Calcium (Ca)	mg/L		1	1	0	0	#DIV/0!		
Chloride (Cl)	mg/L		1	1	0	0	#DIV/0!		
Conductivity	(µS/cm)		1	1	0	0	#DIV/0!		
Copper (Cu)	mg/L		1	1	0	0	#DIV/0!		
Fluoride (F)	mg/L		1	1	0	0	#DIV/0!		
Iron	mg/L		1	1	0	0	#DIV/0!		
Lead (Pb)	mg/L		1	1	0	0	#DIV/0!		
Magnesium (Mg)	mg/L		1	1	0	0	#DIV/0!		
Manganese (Mn)	mg/L		1	1	0	0	#DIV/0!		
Nitrate	mg/L		1	1	0	0	#DIV/0!		
Nitrogen as Ammonia (NH ₃)	mg/L		1	1	0	0	#DIV/0!		
pH	pH Units		1	1	0	0	#DIV/0!		
Potassium (K)	mg/L		1	1	0	0	#DIV/0!		
Sodium (Na)	mg/L		1	1	0	0	#DIV/0!		
Standing Water Level	metres		1	1	0	0	#DIV/0!		
Sulfate (SO ₄)	mg/L		1	1	0	0	#DIV/0!		
Total dissolved solids	mg/L		1	1	0	0	#DIV/0!		
Total organic carbon	mg/L		1	1	0	0	#DIV/0!		
Total Phenolics	mg/L	1	1	0	0	#DIV/0!			
Zinc (Zn)	mg/L	1	1	0	0	#DIV/0!			

*BDL*Below detection limit.*

EPA Licence No: 13366

Monitoring Point 4

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	1	0	0	#DIV/0!		
Aluminium (Al)	mg/L		1	1	0	0	#DIV/0!		
Calcium (Ca)	mg/L		1	1	0	0	#DIV/0!		
Chloride (Cl)	mg/L		1	1	0	0	#DIV/0!		
Conductivity	(µS/cm)		1	1	0	0	#DIV/0!		
Copper (Cu)	mg/L		1	1	0	0	#DIV/0!		
Fluoride (F)	mg/L		1	1	0	0	#DIV/0!		
Iron	mg/L		1	1	0	0	#DIV/0!		
Lead (Pb)	mg/L		1	1	0	0	#DIV/0!		
Magnesium (Mg)	mg/L		1	1	0	0	#DIV/0!		
Manganese (Mn)	mg/L		1	1	0	0	#DIV/0!		
Nitrate	mg/L		1	1	0	0	#DIV/0!		
Nitrogen as Ammonia (NH ₃)	mg/L		1	1	0	0	#DIV/0!		
pH	pH Units		1	1	0	0	#DIV/0!		
Potassium (K)	mg/L		1	1	0	0	#DIV/0!		
Sodium (Na)	mg/L		1	1	0	0	#DIV/0!		
Standing Water Level	metres		1	1	0	0	#DIV/0!		
Sulfate (SO ₄)	mg/L		1	1	0	0	#DIV/0!		
Total dissolved solids	mg/L		1	1	0	0	#DIV/0!		
Total organic carbon	mg/L		1	1	0	0	#DIV/0!		
Total Phenolics	mg/L	1	1	0	0	#DIV/0!			
Zinc (Zn)	mg/L	1	1	0	0	#DIV/0!			

BDL Below detection limit.*

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Monitoring Point 5

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	2	0	0	#DIV/0!		
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!		
Calcium (Ca)	mg/L		1	2	0	0	#DIV/0!		
Chloride (Cl)	mg/L		1	2	0	0	#DIV/0!		
Conductivity	(µS/cm)		1	2	0	0	#DIV/0!		
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!		
Fluoride (F)	mg/L		1	2	0	0	#DIV/0!		
Iron	mg/L		1	2	0	0	#DIV/0!		
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!		
Magnesium (Mg)	mg/L		1	2	0	0	#DIV/0!		
Manganese (Mn)	mg/L		1	2	0	0	#DIV/0!		
Nitrate	mg/L		1	2	0	0	#DIV/0!		
Nitrogen as Ammonia (NH ₃)	mg/L		1	2	0	0	#DIV/0!		
pH	pH Units		1	2	0	0	#DIV/0!		
Potassium (K)	mg/L		1	2	0	0	#DIV/0!		
Sodium (Na)	mg/L		1	2	0	0	#DIV/0!		
Standing Water Level	metres		1	2	0	0	#DIV/0!		
Sulfate (SO ₄)	mg/L		1	2	0	0	#DIV/0!		
Total dissolved solids	mg/L		1	2	0	0	#DIV/0!		
Total organic carbon	mg/L		1	2	0	0	#DIV/0!		
Total Phenolics	mg/L	1	2	0	0	#DIV/0!			
Zinc (Zn)	mg/L	1	2	0	0	#DIV/0!			

BDL Below detection limit.*

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Monitoring Point 6

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	2	0	0	#DIV/0!		
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!		
Calcium (Ca)	mg/L		1	2	0	0	#DIV/0!		
Chloride (Cl)	mg/L		1	2	0	0	#DIV/0!		
Conductivity	(µ/cm)		1	2	0	0	#DIV/0!		
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!		
Fluoride (F)	mg/L		1	2	0	0	#DIV/0!		
Iron	mg/L		1	2	0	0	#DIV/0!		
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!		
Magnesium (Mg)	mg/L		1	2	0	0	#DIV/0!		
Manganese (Mn)	mg/L		1	2	0	0	#DIV/0!		
Nitrate	mg/L		1	2	0	0	#DIV/0!		
Nitrogen as Ammonia (NH ₃)	mg/L		1	2	0	0	#DIV/0!		
pH	pH Units		1	2	0	0	#DIV/0!		
Potassium (K)	mg/L		1	2	0	0	#DIV/0!		
Sodium (Na)	mg/L		1	2	0	0	#DIV/0!		
Standing Water Level	metres		1	2	0	0	#DIV/0!		
Sulfate (SO ₄)	mg/L		1	2	0	0	#DIV/0!		
Total dissolved solids	mg/L		1	2	0	0	#DIV/0!		
Total organic carbon	mg/L		1	2	0	0	#DIV/0!		
Total Phenolics	mg/L	1	2	0	0	#DIV/0!			
Zinc (Zn)	mg/L	1	2	0	0	#DIV/0!			

BDL Below detection limit.*

EPA Licence No: 13366

Monitoring Point 7

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	0	0	0	#DIV/0!		
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!		
Calcium (Ca)	mg/L		1	0	0	0	#DIV/0!		
Chloride (Cl)	mg/L		1	0	0	0	#DIV/0!		
Conductivity	(µS/cm)		1	0	0	0	#DIV/0!		
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!		
Fluoride (F)	mg/L		1	0	0	0	#DIV/0!		
Iron	mg/L		1	2	0	0	#DIV/0!		
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!		
Magnesium (Mg)	mg/L		1	0	0	0	#DIV/0!		
Manganese (Mn)	mg/L		1	0	0	0	#DIV/0!		
Nitrate	mg/L		1	2	0	0	#DIV/0!		
Nitrogen as Ammonia (NH ₃)	mg/L		1	0	0	0	#DIV/0!		
pH	pH Units		1	0	0	0	#DIV/0!		
Potassium (K)	mg/L		1	0	0	0	#DIV/0!		
Sodium (Na)	mg/L		1	0	0	0	#DIV/0!		
Standing Water Level	metres		1	0	0	0	#DIV/0!		
Sulfate (SO ₄)	mg/L		1	0	0	0	#DIV/0!		
Total dissolved solids	mg/L		1	0	0	0	#DIV/0!		
Total organic carbon	mg/L		1	2	0	0	#DIV/0!		
Total Phenolics	mg/L	1	2	0	0	#DIV/0!			
Zinc (Zn)	mg/L	1	2	0	0	#DIV/0!			

*Below detection limit.

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Monitoring Point 8

(Zone 56: 262079.587 East, 6180676.705 North)

Groundwater Quality Monitoring

Groundwater monitoring location P1-A as identified in Licence Variation Application to the EPA on 10 February 2021 - Proposed monitoring points - CM9 DOC 21/142907

Sampling frequency: Every 6 months

Pollutant	Unit of Measure	100 Percentile Concentration Limit	No. of Samples Required by Licence	Total no. of samples collected and analysed	Lowest sample value	Highest sample value	Mean of samples	Results	
Alkalinity (as CaCO ₃)	mg/L	<i>No concentration limits apply - sampling for monitoring purposes only</i>	1	0	0	0	#DIV/0!		
Aluminium (Al)	mg/L		1	2	0	0	#DIV/0!		
Calcium (Ca)	mg/L		1	0	0	0	#DIV/0!		
Chloride (Cl)	mg/L		1	0	0	0	#DIV/0!		
Conductivity	(µS/cm)		1	0	0	0	#DIV/0!		
Copper (Cu)	mg/L		1	2	0	0	#DIV/0!		
Fluoride (F)	mg/L		1	0	0	0	#DIV/0!		
Iron	mg/L		1	2	0	0	#DIV/0!		
Lead (Pb)	mg/L		1	2	0	0	#DIV/0!		
Magnesium (Mg)	mg/L		1	0	0	0	#DIV/0!		
Manganese (Mn)	mg/L		1	0	0	0	#DIV/0!		
Nitrate	mg/L		1	2	0	0	#DIV/0!		
Nitrogen as Ammonia (NH ₃)	mg/L		1	0	0	0	#DIV/0!		
pH	pH Units		1	0	0	0	#DIV/0!		
Potassium (K)	mg/L		1	0	0	0	#DIV/0!		
Sodium (Na)	mg/L		1	0	0	0	#DIV/0!		
Standing Water Level	metres		1	0	0	0	#DIV/0!		
Sulfate (SO ₄)	mg/L		1	0	0	0	#DIV/0!		
Total dissolved solids	mg/L		1	0	0	0	#DIV/0!		
Total organic carbon	mg/L		1	2	0	0	#DIV/0!		
Total Phenolics	mg/L	1	2	0	0	#DIV/0!			
Zinc (Zn)	mg/L	1	0	0	0	#DIV/0!			

*Below detection limit.

