

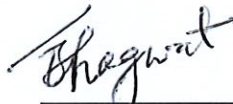
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Water Monitoring Data Report

14-Jul-23

The attached report contains the water monitoring data for all the licenced water monitoring points as required by the Environment Protection Licence 10232, for July to June 2023 as part of the reporting period July 2022 - June 2023.

Authorised by:



Uday Bhagwat
Pulp Mill Manager



Johan Stoltz
General Manager



Latest Publication Date: 14-Jul-23
Monitoring Location No: 9
Environment Protection Licence: 10232
Description: Outlet pipe from the 400ML storage pond into Sandy Creek
Reporting Period: July 2022 to June 2023
Monitoring Type: Grab Sample
Sample Type: Water

Parameter	Unit	Concentration Limit	Date of Sample	Date of Report	Data	Compliance (Yes/No)	Comment
BOD	mg/L	40					Note
Nitrogen (total)	mg/L	20					Note
pH	pH	5.5 - 9.5					Note
Phosphorus (total)	mg/L	5					Note
TDS	mg/L	N/A					Note
TSS	mg/L	45					Note
Zinc	mg/L	N/A					Note

N/A-Not Applicable

Note: Sampling only conducted on day of discharge from 400ML Storage Dam into Sandy Creek and monthly thereafter

Latest Publication Date: 14-Jul-23

Monitoring Location No: 10

Environment Protection Licence: 10232

Description: Decant Line from the Sequencing Batch Reactor

Reporting Period: July 2022 to June 2023

Monitoring Type: Grab Sample

Sample Type: Water

Month	Parameter	Units	Concentration		Date of Sample	Date of Report	Report No.	Data	Compliance (Yes/No)	Comment
			Limit	Frequency						
Aug-22	BOD	mg/L	40	1st Period	2-Aug-22	16-Aug-22	2208-0003	5	Yes	
	Nitrogen (total)	mg/L	20	1st Period	2-Aug-22	16-Aug-22	2208-0003	4	Yes	
	Oil and Grease	mg/L	5	1st Period	2-Aug-22	16-Aug-22	2208-0003	2	Yes	
	pH	pH	5.5 - 9.5	1st Period	2-Aug-22	16-Aug-22	2208-0003	7.9	Yes	
	Phosphorus (total)	mg/L	5	1st Period	2-Aug-22	16-Aug-22	2208-0003	0.28	Yes	
	Sodium Adsorption Ratio	SAR	N/A	1st Period	2-Aug-22	16-Aug-22	2208-0003	4	N/A	
	TDS	mg/L	N/A	1st Period	2-Aug-22	16-Aug-22	2208-0003	108	N/A	
	TSS	mg/L	45	1st Period	2-Aug-22	16-Aug-22	2208-0003	20	Yes	
	Zinc	mg/L	N/A	1st Period	2-Aug-22	16-Aug-22	2208-0003	0.022	N/A	
Sep-22	BOD	mg/L	40	2nd Period	2-Sep-22	19-Sep-22	2209-0017	12	Yes	
	Nitrogen (total)	mg/L	20	2nd Period	2-Sep-22	19-Sep-22	2209-0017	4	Yes	
	Oil and Grease	mg/L	5	2nd Period	2-Sep-22	19-Sep-22	2209-0017	2	Yes	
	pH	pH	5.5 - 9.5	2nd Period	2-Sep-22	19-Sep-22	2209-0017	7.1	Yes	
	Phosphorus (total)	mg/L	5	2nd Period	2-Sep-22	19-Sep-22	2209-0017	0.57	Yes	
	Sodium Adsorption Ratio	SAR	N/A	2nd Period	2-Sep-22	19-Sep-22	2209-0017	4	N/A	
	TDS	mg/L	N/A	2nd Period	2-Sep-22	19-Sep-22	2209-0017	115	N/A	
	TSS	mg/L	45	2nd Period	2-Sep-22	19-Sep-22	2209-0017	28	Yes	
	Zinc	mg/L	N/A	2nd Period	2-Sep-22	19-Sep-22	2209-0017	0.020	N/A	
Nov-22	BOD	mg/L	40	3rd Period	2-Nov-22	23-Nov-22	2211-0011	13	Yes	
	Nitrogen (total)	mg/L	20	3rd Period	2-Nov-22	23-Nov-22	2211-0011	5	Yes	
	Oil and Grease	mg/L	5	3rd Period	2-Nov-22	23-Nov-22	2211-0011	2	Yes	
	pH	pH	5.5 - 9.5	3rd Period	2-Nov-22	23-Nov-22	2211-0011	7.8	Yes	
	Phosphorus (total)	mg/L	5	3rd Period	2-Nov-22	23-Nov-22	2211-0011	0.96	Yes	
	Sodium Adsorption Ratio	SAR	N/A	3rd Period	2-Nov-22	23-Nov-22	2211-0011	5	N/A	
	TDS	mg/L	N/A	3rd Period	2-Nov-22	23-Nov-22	2211-0011	169	N/A	
	TSS	mg/L	45	3rd Period	2-Nov-22	23-Nov-22	2211-0011	40	Yes	
	Zinc	mg/L	N/A	3rd Period	2-Nov-22	23-Nov-22	2211-0011	0.05	N/A	
Feb-23	BOD	mg/L	40	4th Period	02-Feb-23	17-Feb-23	2302-0023	8	Yes	
	Nitrogen (total)	mg/L	20	4th Period	02-Feb-23	17-Feb-23	2302-0023	4	Yes	
	Oil and Grease	mg/L	5	4th period	02-Feb-23	17-Feb-23	2302-0023	5	Yes	
	pH	pH	5.5 - 9.5	4th period	02-Feb-23	17-Feb-23	2302-0023	7.5	Yes	
	Phosphorus (total)	mg/L	5	4th period	02-Feb-23	17-Feb-23	2302-0023	0.23	Yes	
	Sodium Adsorption Ratio	SAR	N/A	4th period	02-Feb-23	17-Feb-23	2302-0023	5	N/A	
	TDS	mg/L	N/A	4th period	02-Feb-23	17-Feb-23	2302-0023	222	N/A	
	TSS	mg/L	45	4th period	02-Feb-23	17-Feb-23	2302-0023	14	Yes	
	Zinc	mg/L	N/A	4th period	02-Feb-23	17-Feb-23	2302-0023	0.055	N/A	
Apr-23	BOD	mg/L	40	5th Period	5-Apr-23	27-Apr-23	2304-0014	14	Yes	
	Nitrogen (total)	mg/L	20	5th Period	5-Apr-23	27-Apr-23	2304-0014	< 2	Yes	
	Oil and Grease	mg/L	5	5th Period	5-Apr-23	27-Apr-23	2304-0014	< 1	Yes	
	pH	pH	5.5 - 9.5	5th Period	5-Apr-23	27-Apr-23	2304-0014	7.2	Yes	
	Phosphorus (total)	mg/L	5	5th Period	5-Apr-23	27-Apr-23	2304-0014	0.35	Yes	
	Sodium Adsorption Ratio	SAR	N/A	5th Period	5-Apr-23	27-Apr-23	2304-0014	4	N/A	
	TDS	mg/L	N/A	5th Period	5-Apr-23	27-Apr-23	2304-0014	166	N/A	
	TSS	mg/L	45	5th Period	5-Apr-23	27-Apr-23	2304-0014	11	Yes	
	Zinc	mg/L	N/A	5th Period	5-Apr-23	27-Apr-23	2304-0014	0.021	N/A	
Jun-23	BOD	mg/L	40	6th Period	01-Jun-23	20-Jun-23	2306-0006	6	Yes	
	Nitrogen (total)	mg/L	20	6th Period	01-Jun-23	20-Jun-23	2306-0006	6	Yes	
	Oil and Grease	mg/L	5	6th Period	01-Jun-23	20-Jun-23	2306-0006	< 1	Yes	
	pH	pH	5.5 - 9.5	6th Period	01-Jun-23	20-Jun-23	2306-0006	7.2	Yes	
	Phosphorus (total)	mg/L	5	6th Period	01-Jun-23	20-Jun-23	2306-0006	1.05	Yes	
	Sodium Adsorption Ratio	SAR	N/A	6th Period	01-Jun-23	20-Jun-23	2306-0006	3	N/A	
	TDS	mg/L	N/A	6th Period	01-Jun-23	20-Jun-23	2306-0006	138	N/A	
	TSS	mg/L	45	6th Period	01-Jun-23	20-Jun-23	2306-0006	5	Yes	
	Zinc	mg/L	N/A	6th Period	01-Jun-23	20-Jun-23	2306-0006	0.025	N/A	

Latest Publication Date: 14-Jul-23
Monitoring Location No: 11 **Environment Protection Licence:** 10232
Description: Sandy creek, upstream of discharge point **Reporting Period:** July 2022 to June 2023
Monitoring Type: Grab Sample **Sample Type:** Water

Month	Parameter	Unit	Date of Sample	Date of Report	Data	Comments
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note

N/A-Not Applicable

Note: Sampling only conducted on day of discharge from 400ML Storage Dam into Sandy Creek and monthly thereafter

General Note: Limits are not applicable to this monitoring point



Latest Publication Date: 14-Jul-23
Monitoring Location No: 12 **Environment Protection Licence:** 10232
Description: Sandy creek, downstream of discharge point **Reporting Period:** July 2022 to June 2023
Monitoring Type: Grab Sample **Sample Type:** Water

Month	Parameter	Unit	Date of Sample	Date of Report	Data	Comments
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note
	BOD	mg/L				Note
	Nitrogen (total)	mg/L				Note
	pH	pH				Note
	Phosphorus (total)	mg/L				Note
	TDS	mg/L				Note

N/A-Not Applicable

Note: Sampling only conducted on day of discharge from 400ML Storage Dam into Sandy Creek and monthly thereafter

General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jul-23
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2022 to June 2023
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
SMS1	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	7.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	4440.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	10.00
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.05
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1342.68
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	121.55
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	109.48
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	25.29
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	1.40
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	3.10
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	2020.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	2.20
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.50
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	70.00
SMS2	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	8.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	2620.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	14.00
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.06
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1242.48
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	133.71
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	74.29
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	89.66
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	4.90
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.90
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	2440.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	3.10
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.40
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	82.00
SMS3	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	8.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	2780.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	15.00
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.04
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1242.48
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	145.86
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	39.08
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	2.20
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.80
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	2480.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	2.30
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.50
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	54.00
SMS4	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	7.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	4010.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	14.00
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.04
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1302.60
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	97.24
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	54.74
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	1.90
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.70
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	1930.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	2.00
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.60
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	54.00
SMS5	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	7.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	2990.00

Latest Publication Date: 14-Jul-23
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample

Environment Protection Licence: 10232
Reporting Period: July 2022 to June 2023
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	16.00
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.12
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	3406.80
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	109.40
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	254.15
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	34.49
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	0.83
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.70
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	2430.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	2.70
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	8.00
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	97.00
SMS6	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	8.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	3480.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	17.00
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.06
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	2204.40
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	158.02
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	160.31
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	29.89
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	0.98
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	0.80
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	2020.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	3.70
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.70
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	110.00
SMS7	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	6.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	3990.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.04
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	761.52
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	72.93
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	129.03
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	0.66
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.60
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	2620.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	3.00
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	5.80
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	150.00

General Note: Sampling conducted every 3 years

General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jul-23
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample

Environment Protection Licence: 10232
Reporting Period: July 2022 to June 2023
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
SMS1	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	5.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	43200.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.10
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1322.64
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	340.34
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	168.13
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	160.93
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	6.60
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.60
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	390.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.40
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	7.00
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	230.00
SMS2	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	5.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	35400.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.04
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	35.98
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	440.88
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	206.64
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	31.28
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	160.93
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	14.00
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	<0.5
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	201.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.20
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.30
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	55.00
SMS3	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	5.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	78100.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.07
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1002.00
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	474.05
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	252.89
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	10.00
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	0.70
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	376.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.40
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	6.30
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	160.00
SMS4	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	5.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	71100.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.09
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	661.32
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	279.57
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	275.88
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	17.00
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.60
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	400.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.40
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	5.90
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	400.00
SMS5	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	5.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	45500.00

Latest Publication Date: 14-Jul-23
Monitoring Location No: 13
Description: Soil Monitoring Sites 1 to 7
Monitoring Type: Representative Sample
Environment Protection Licence: 10232
Reporting Period: July 2022 to June 2023
Sample Type: Soil

Sampling point	Parameter	Unit	Date of Sample	Date of Report	Report No.	Data
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.07
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	8.99
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	1302.60
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	218.79
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	75.87
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	3.50
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	1.60
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	555.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.50
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	7.70
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	400.00
SMS6	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	6.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	47800.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.08
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	35.98
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	981.96
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	291.72
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	101.66
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	158.63
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	8.10
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	0.80
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	999.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.20
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	5.70
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	370.00
SMS7	Aggregate stability	As approp.	12-Oct-22	08-Nov-22	2210-0035	6.00
	Aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	39800.00
	Available phosphorus	ppm	12-Oct-22	08-Nov-22	2210-0035	<5
	Conductivity	mS/cm	12-Oct-22	08-Nov-22	2210-0035	0.02
	Exchangeable aluminium	ppm	12-Oct-22	08-Nov-22	2210-0035	251.83
	Exchangeable calcium	ppm	12-Oct-22	08-Nov-22	2210-0035	220.44
	Exchangeable magnesium	ppm	12-Oct-22	08-Nov-22	2210-0035	303.88
	Exchangeable potassium	ppm	12-Oct-22	08-Nov-22	2210-0035	31.28
	Exchangeable sodium	ppm	12-Oct-22	08-Nov-22	2210-0035	0.00
	Exchangeable sodium percentage	%	12-Oct-22	08-Nov-22	2210-0035	1.60
	Nitrate	ppm	12-Oct-22	08-Nov-22	2210-0035	5.40
	Nitrogen (total)	ppm	12-Oct-22	08-Nov-22	2210-0035	766.00
	Organic carbon	%	12-Oct-22	08-Nov-22	2210-0035	0.30
	pH	pH	12-Oct-22	08-Nov-22	2210-0035	5.20
	Phosphorus Sorption Capacity	As approp.	12-Oct-22	08-Nov-22	2210-0035	460.00

General Note: Sampling conducted every 3 years
 General Note: Limits are not applicable to this monitoring point

Latest Publication Date: 14-Jul-23
 Monitoring Location No: 14
 Description: Groundwater Monitoring Bores - Depth
 Monitoring Type: Grab Sample

Environment Protection Licence: 10232
 Reporting Period: July 2022 to June 2023
 Sample Type: Depth

Month	Date of Sample	Units	Borehole No														
			BH1	BH2	BH3	BH7S	BH7D	BH8S	BH8D	BH9	BH10D	BH11S	BH11D	BH13	BH14	BH15S	BH15D
Jul-22	8-Jul-22	m	2.90	2.83	4.40	Note 1	2.15	0.52	0.62	7.82	5.91	0.74	1.91	0.10	0.36	0.79	0.90
Oct-22	7-Oct-22	m	1.92	1.80	2.11	Note 1	2.15	0.05	0.83	7.17	5.02	2.00	0.81	0.01	0.01	0.10	0.01
Jan-23	9-Jan-23	m	2.90	2.71	4.22	Note 1	3.25	0.35	0.63	5.69	4.85	2.23	5.05	0.22	0.01	0.75	0.97
Apr-23	11-Apr-23	m	3.61	3.11	5.19	Note 1	6.04	1.06	0.72	8.40	3.31	2.20	1.03	0.10	0.31	0.27	0.34

General Note: Limits are not applicable to this monitoring point

Note 1- Bore empty

Note 2- All readings taken from top of casing

Latest Publication Date: 14-Jul-23

Monitoring Location No: 14

Description: Groundwater Monitoring Bores - Quality

Monitoring Type: Grab Sample

Environment Protection Licence: 10232

Reporting Period: July 2022 to June 2023

Sample Type: Water

Month	Parameter	Units	Freq	Date of Sample	Date of Report	Report No.	Sample Value														
							BH1	BH2	BH3	BH7S	BH7D	BH8S	BH8D	BH9	BH10D	BH11S	BH11D	BH13	BH14	BH15S	BH15D
Jul 22	Conductivity	mS/cm	1st Qrt	08-Jul-22	02-Aug-22	2107-0032	375	132	124	Note 1	283	511	582	253	715	839	800	1080	780	413	340
	Nitrate	ppm	1st Qrt	08-Jul-22	02-Aug-22	2107-0032	<1	4	3	Note 1	<1	1	2	10	10	<1	<1	<1	<1	<1	10
	pH	pH	1st Qrt	08-Jul-22	02-Aug-22	2107-0032	5.80	6.10	6.00	Note 1	6.10	6.10	6.40	6.40	7.00	7.00	6.90	7.30	7.00	7.40	7.10
Oct 22	pH	pH	2nd Qrt	07-Oct-22	27-Oct-22	2210-0071	7.10	6.90	6.70	Note 1	6.50	6.80	6.60	6.70	7.30	7.20	7.00	7.20	7.10	7.10	7.30
Jan 23	Conductivity	mS/cm	3rd Qrt	09-Jan-23	31-Jan-23	2201-0034	380	151	417	Note 1	450	644	556	430	694	690	832	1070	810	340	392
	Nitrate	ppm	3rd Qrt	09-Jan-23	31-Jan-23	2201-0034	0.70	2.70	<0.1	Note 1	<0.1	1.00	1.00	4.00	5.60	<0.1	<0.1	<0.1	<0.1	2.60	<0.1
	pH	pH	3rd Qrt	09-Jan-23	31-Jan-23	2201-0034	8.10	8.10	6.50	Note 1	6.50	7.00	6.70	6.80	6.80	7.00	6.60	6.90	6.80	7.00	7.00
Apr 23	pH	pH	4th Qrt	06-Apr-23	13-Apr-23	2203-0021	5.80	5.80	5.90	Note 1	6.20	6.80	7.00	6.80	6.80	6.80	6.70	7.00	6.90	7.10	6.80

General Note: Limits are not applicable to this monitoring point

Note 1- Bore empty