

Water Discharge Monitoring - Sediment Basins

Date	Time	Location / Sample Name	Lab ID	FGJV Discharge Permit No.	EPL Special Frequency 1: Standard Sampling Parameters				EPL Special Frequency 3: Alum Floc Doing Sampling Parameters			Collected By	Instrumentation	Approx. Volume m3	Comments
					TSS (mg/L)	Turbidity (NTU)	pH	Oil & Grease	Aluminium (mg/L)	Iron (mg/L)	Conductivity (µS/cm)				
					50 / 10	60	6.5-8.5	Not Visible	0.055	0.3	125-2,200 / N/A				EPL Criteria / ANZG (2018) default guideline values for Lowland Rivers / Estuaries
03/06/2024	4:10 PM	B15300R	NA	2139	NA	26.8	7.6	nil				E.Oldman	Horiba		
03/06/2024	4:20 PM	B14500R	NA	2140	NA	0.1	7.14	nil				E.Oldman	Horiba		
04/06/2024	7:50 AM	B12100R	NA	243	NA	15.4	7.67	nil				E.Oldman	Horiba		
04/06/2024	8:14 AM	B12250R	NA	2141	NA	26.4	7.4	nil				E.Oldman	Horiba		
05/06/2024	11:00 AM	B21050R	NA	191	NA	34	6.9	nil				A.Burke	Horbia	857	
06/06/2024	7:14 AM	B11000R	NA	2142	NA	10.9	7.29	nil				E.Oldman	Horiba		
06/06/2024	7:40 AM	B12250R	NA	2143	NA	2.2	7.41	nil				E.Oldman	Horiba		
11/06/2024	9:30 AM	B21050R	NA	194	NA	24	7	nil				A.Burke	Horiba	536	
12/06/2024	7:50 AM	B11450R	NA	2145	NA	15.7	6.58	nil				E.Oldman	Horiba		
12/06/2024	8:00 AM	B11000R	NA	2146	NA	2.7	6.72	nil				E.Oldman	Horiba		
13/06/2024	7:30 AM	B20750R	NA	196	NA	30	7.4	nil				A.Burke	Horiba	850	Existing farm dams treated/dewatered to basin spillway
13/06/2024	7:40 AM	B20750R	NA	197	NA	34.3	6.84	nil				A.Burke	Horiba	614	
27/06/2024	7:45 AM	B11450R	NA	1229	NA	15	7.9	nil				M.Stuyt	Hach, pH pen		
28/06/2024	9:30 AM	B12600L	NA	5	NA	23.3	6.54	nil				E.Oldman	Horiba		

CHB Blasting monitoring

DNT Did not trigger
 MFTR Monitor failed to record
 NRR No result recorded

- Controlled blasting agreement in place
- Exceedance of Limit 1
- Exceedance of Limit 2
- X Exceedance of controlled blasting agreement

Airblast overpressure and Ground vibration limits for human comfort

Limits (EPL 21766 Condition L5.1, 5.2 and 5.3 MCoAs E55, E56, E57 & E58)

Blasting operations lasting less than 12 months or less than 20 blasts in total:

<i>Airblast overpressure criteria</i>		
	Airblast overpressure (dB(Lin Peak))	Allowable exceedance
Limit 1	120	5% of total number of blasts over the EPL reporting period
Limit 2	125	Never

<i>Peak particle velocity criteria</i>		
	Peak particle velocity (mm/s)	Allowable exceedance
Limit 1	10	Never
Limit 2	-	N/A - only 1 limit applies to blasting within this duration

<i>Community agreement criteria</i>		
Peak particle velocity (mm/s):	10	
Airblast overpressure (dB(Lin Peak)):	125	

Blasting operations lasting more than 12 months or more than 20 blasts in total:

<i>Airblast overpressure criteria</i>		
	Airblast overpressure (dB(Lin Peak))	Allowable exceedance
Limit 1	115	5% of total number of blasts over the EPL reporting period
Limit 2	120	Never

<i>Peak particle velocity criteria</i>		
	Peak particle velocity (mm/s)	Allowable exceedance
Limit 1	5	5% of total number of blasts over the EPL reporting period
Limit 2	10	Never

<i>Community agreement criteria</i>		
Peak particle velocity (mm/s):	25	
Airblast overpressure (dB(Lin Peak)):	125	

Blast Location	Blast Ref.	Date	Time	MIC	Blast Subcontractor	Monitor Location	Distance from Blast	Monitor Location Type	Results		Exceedance of Airblast Overpressure Criteria		Exceedance of PPV Criteria		Covered by a Blasting Agreement?	Exceedance of Agreement Criteria		Comment
									PPV (mm/s)	Overpressure (dB(L))	Exceedance of Limit 1	Exceedance of Limit 2	Exceedance of Limit 1	Exceedance of Limit 2		Exceedance of PPV Limit?	Exceedance of Airblast Limit?	
Cut 16	Blast 21	6/11/2024	14:45	22	Ron Southon	53 Bruxner Park Road	390m	Sensitive Site (House)	2.597	103.5	No	No	No	No	No	No	No	Blasting criteria >20blasts now applies for Cut 16
						19-19A Bruxner Park Rd (RFS Building)	290m	Other structure	10.210	116.3	Yes	No	No	No	No	No	No	
						15 Bruxner Park Road	330m	Sensitive Site (House)	4.107	110.6	No	No	No	No	No	No	No	
						108 West Korora Rd	190m	Sensitive Site (House)	3.657	101.0	No	No	No	No	Yes	No	No	
Cut 14	Blast 2	6/11/2024	13:30:00	15	Ron Southon	111A Bruxner Park Rd	755m	Sensitive Site (House)	1.850	89.4	No	No	No	No	No	No	No	Additional monitor installed by FGJV in response to community complaint.
						171B Mackays Rd House	127m	Sensitive Site (House)	1.306	114.4	No	No	No	No	No	No	No	
						171B Mackays Rd Shed	63m	Other structure	2.300	107.0	No	No	No	No	No	No	No	
						135 Mackays Rd	185m	Sensitive Site (House)	0.933	103.5	No	No	No	No	No	No	No	
Cut 16	Blast 22	6/24/2024	14:15	30 & 8.5	Ron Southon	171D Mackays Rd	171m	Sensitive Site (House)	1.092	106.0	No	No	No	No	No	No	No	
						53 Bruxner Park Road	305m	Sensitive Site (House)	4.981	98.8	No	No	No	No	No	No	No	
						19-19A Bruxner Park Rd (RFS Building)	210m	Other structure	8.468	125.9	No	No	No	No	No	No	No	
						15 Bruxner Park Road	263m	Sensitive Site (House)	4.096	111.2	No	No	No	No	No	No	No	
						108 West Korora Rd	210m	Sensitive Site (House)	3.898	124.5	No	No	No	No	Yes	No	No	

Blast Location	Blast Ref.	Date	Time	Monitor SN	Monitor Location	Monitor Location Type	Results		Exceedance of Airblast Overpressure Criteria				Exceedance of PPV Criteria		Covered by a Blasting Agreement?	Exceedance of Agreement Criteria		Comment	
							PPV (mm/s)	Overpressure (dB(L))	Limit 1 (dB(L))	Limit 2 (dB(L))	Exceedance of Limit 1	Exceedance of Limit 2	Limit (mm/s)	Exceedance of Limit 1		Exceedance of PPV Limit?	Exceedance of Overpressure Limit?		
Gatleys North Portal - SB	38	6/1/2024	9:05	7755	172 West Korora Road	Sensitive Site (House)	0.25	117.8	115	120	Yes	No	5	No	No	No	No		
				7704	94 Gatleys Road	Sensitive Site (House)	1.28	101	115	120	No	No	5	No	No	No	No	No	
				7819	84 Gatleys Road	Sensitive Site (House)	0.33	117.1	115	120	Yes	No	5	No	Yes	No	No	No	
				7737	Banana Packing Shed	Other Structure - Shed	0.2	122.2	N/A	N/A	N/A	N/A	N/A	No	No	No	No	No	No
Gatleys North Portal - NB	39	6/3/2024	15:43	7755	172 West Korora Road	Sensitive Site (House)	0.43	113.5	115	120	No	No	5	No	No	No	No		
				7704	94 Gatleys Road	Sensitive Site (House)	2.52	100.3	115	120	No	No	5	No	No	No	No	No	
				7819	84 Gatleys Road	Sensitive Site (House)	0.62	112	115	120	No	No	5	No	Yes	No	No	No	
				7737	Banana Packing Shed	Other Structure - Shed	0.51	116.2	N/A	N/A	N/A	N/A	N/A	No	No	No	No	No	No
Gatleys North Portal - SB	40	6/4/2024	7:06	7755	172 West Korora Road	Sensitive Site (House)	0.25	118	115	120	Yes	No	5	No	No	No	No		
				7704	94 Gatleys Road	Sensitive Site (House)	-	-	115	120	N/A	N/A	5	No	No	No	No	No	
				7819	84 Gatleys Road	Sensitive Site (House)	0.49	117.1	115	120	Yes		5	No	Yes	No	No	No	
				7737	Banana Packing Shed	Other Structure - Shed	0.23	120.9	N/A	N/A	N/A	N/A	N/A	No	No	No	No	No	No
Gatleys North Portal - SB	41	6/5/2024	11:09	7755	172 West Korora Road	Sensitive Site (House)	0.23	116.1	115	120	Yes		5	No	No	No	No		
				7704	94 Gatleys Road	Sensitive Site (House)	-	-	115	120	No		5	No	No	No	No	No	
				7819	84 Gatleys Road	Sensitive Site (House)	0.55	115.6	115	120	Yes		5	No	Yes	No	No	No	
Gatleys North Portal - NB	42	6/5/2024	17:22	7755	172 West Korora Road	Sensitive Site (House)	0.44	115	115	120	No	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.49	113	115	120	No	No	5	No	Yes	No	No	No	
Gatleys North Portal - SB	43	6/6/2024	12:40	7755	172 West Korora Road	Sensitive Site (House)	0.23	115.8	115	120	Yes	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.36	113.9	115	120	No	No	5	No	Yes	No	No	No	
Gatleys North Portal - SB	44	6/7/2024	16:15	7755	172 West Korora Road	Sensitive Site (House)	0.25	124.1	115	120	Yes	Yes	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.59	123.1	115	120	Yes	Yes	5	No	Yes	No	No	No	
Gatleys North Portal - NB	45	6/11/2024	9:31	7755	172 West Korora Road	Sensitive Site (House)	0.41	131.5	115	120	Yes	Yes	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.78	125	115	120	Yes	Yes	5	No	Yes	No	No	No	
Gatleys North Portal - SB	46	6/12/2024	7:07	7755	172 West Korora Road	Sensitive Site (House)	0.23	113.4	115	120	No	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.21	114.8	115	120	No	No	5	No	Yes	No	No	No	
Gatleys North Portal - SB	47	6/13/2024	10:09	7755	172 West Korora Road	Sensitive Site (House)	0.25	121.5	115	120	Yes	Yes	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.67	120.7	115	120	Yes	Yes	5	No	Yes	No	No	No	
Gatleys North Portal - NB	48	6/13/2024	15:12	7755	172 West Korora Road	Sensitive Site (House)	0.46	119.3	115	120	Yes	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.41	116.5	115	120	Yes	No	5	No	Yes	No	No	No	
Gatleys North Portal - SB	47 (ii)	6/13/2024	17:39	7755	172 West Korora Road	Sensitive Site (House)	0.23	115.3	115	120	Yes	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.3	112.7	115	120	Yes	No	5	No	Yes	No	No	No	
Gatleys North Portal - NB	49	6/15/2024	9:00	7755	172 West Korora Road	Sensitive Site (House)	0.38	117.5	115	120	Yes	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.41	112.6	115	120	Yes	No	5	No	Yes	No	No	No	
Gatleys North Portal - SB	50	6/17/2024	11:27	7755	172 West Korora Road	Sensitive Site (House)	0.25	113.8	115	120	No	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.41	112.8	115	120	No	No	5	No	Yes	No	No	No	
Gatleys North Portal - NB	51	6/18/2024	17:41	7755	172 West Korora Road	Sensitive Site (House)	0.36	127	115	120	Yes	Yes	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.39	121.7	115	120	Yes	No	5	No	Yes	No	No	No	
Gatleys North Portal - SB	52	6/19/2024	11:40	7755	172 West Korora Road	Sensitive Site (House)	0.27	116.6	115	120	Yes	No	5	No	No	No	No		
				7819	84 Gatleys Road	Sensitive Site (House)	0.52	118.3	115	120	Yes	No	5	No	Yes	No	No	No	

Gatleys North Portal - NB	53	6/20/2024	16:51	7755	172 West Korora Road	Sensitive Site (House)	0.32	117	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.33	112.7	115	120	Yes	No	5	No	Yes	No	No	
Gatleys North Portal - SB	54	6/21/2024	7:46	7755	172 West Korora Road	Sensitive Site (House)	0.25	117.9	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.42	115.1	115	120	Yes	No	5	No	Yes	No	No	
Gatleys North Portal - NB	55	6/22/2024	9:05	7755	172 West Korora Road	Sensitive Site (House)	0.35	117.6	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.27	113.3	115	120	Yes	No	5	No	Yes	No	No	
Gatleys North Portal - SB	56	6/25/2024	9:01	7755	172 West Korora Road	Sensitive Site (House)	0.29	121.6	115	120	Yes	Yes	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.57	121.3	115	120	Yes	No	5	No	Yes	No	No	
Gatleys North Portal - NB	57	6/26/2024	13:59	7755	172 West Korora Road	Sensitive Site (House)	0.31	118.4	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.39	114.3	115	120	No	No	5	No	Yes	No	No	
Gatleys North Portal - SB	58	6/27/2024	8:17	7755	172 West Korora Road	Sensitive Site (House)	0.27	119.7	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.54	120.3	115	120	Yes	No	5	No	Yes	No	No	
Gatleys North Portal - NB	59	6/29/2024	9:05	7755	172 West Korora Road	Sensitive Site (House)	0.29	118.3	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.68	118.7	115	120	Yes	No	5	No	Yes	No	No	
Gatleys North Portal - SB	60	6/29/2024	9:59	7755	172 West Korora Road	Sensitive Site (House)	0.31	116.4	115	120	Yes	No	5	No	No	No	No	
				7819	84 Gatelys Road	Sensitive Site (House)	0.48	112.4	115	120	No	No	5	No	Yes	No	No	

Water Discharge Monitoring - WTPs



Date	Time	Location / Sample Name	Lab Ref.	Discharge Permit No.	TSS (mg/L)	pH	Oil & Grease	Arsenic (mg/L)	Cadmium (mg/L)	Chromium VI (mg/L)	Chromium III (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Collected by	Comment
					50	6.5 to 8.5	None Visible	0.05	0.014	0.07	0.15	0.04	1.5	0.03	2.2	0.0007	0.2	0.15		
5/30/2024	8:45 AM	Tunnel Floor Raw Water	R4830/1	NA	125	12.3	None	<0.001	<0.001	0.05	0.002	0.004	0.08	<0.001	<0.001	<0.0005	<0.001	<0.002	T. Gilheany	
5/30/2024	8:50 AM	Gatleys-N (GWTP-1)	R4830/2	621	33	7.37	None	<0.001	<0.001	0.046	0.001	<0.001	0.02	<0.001	0.036	<0.0005	0.001	0.052	T. Gilheany	7/06: awaiting results from subby lab. 2/3 samples compliant, therefore permit for June issued.
5/30/2024	8:50 AM	Gatleys-N (GWTP-2)	R4830/3		13	7.22	None	<0.001	<0.001	0.046	0	<0.001	0.01	<0.001	0.033	<0.0005	0.033	0.004	T. Gilheany	
5/30/2024	8:50 AM	Gatleys-N (GWTP-3)	R4830/4		6	6.9	None	<0.001	<0.001	0.044	0.002	<0.001	<0.001	<0.005	<0.001	0.034	<0.0001	0.001	<0.005	