

Environmental

Water monitoring results

Red highlighted results = 2 or more trigger points exceeded at 1 sample point – retest as per license.

Red highlighted results = 1 trigger points exceeded at 1 sample point – no retest as per license.

Green highlighted results = trigger points exceeded at different sample points – may/may not require retesting.

TSS trigger point exceedances at sample point No 2 and 3 only must be looked into, possible retest.

Monitoring point No 1 Entering the site

Date	Arsenic <0.012 mg/l	Boron <0.180 mg/l	Chrome <0.002 mg/l	Copper <0.002 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
18.05.2015	<0.018	<0.050	<0.003	<0.004	6.9	4
01.06.2015				<0.004		
07.07.2015	<0.018	<0.027	<0.003	<0.004	6.7	3
license variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
09.11.2015	0.002	<0.05	<0.001	<0.001	7.07	<5
2016						
26.05.2016	No flow	No flow	No flow	No flow	No flow	No flow
30.11.2016	No flow	No flow	No flow	No flow	No flow	No flow
2017						
04.05.2017	<0.001	<0.05	<0.001	<0.001	7.03	<5
08.11.2017	<0.001	<0.05	<0.001	<0.001	7.25	<5
2018						
31.05.2018	No flow	No flow	No flow	No flow	No flow	No flow
01.11.2018	<0.001	<0.05	<0.001	<0.001	7.06	<5
2019						
30.05.2019	No flow	No flow	No flow	No flow	No flow	No flow
25.11.2019	No flow	No flow	No flow	No flow	No flow	No flow
2020						
27.04.2020	<0.001	<0.05	<0.001	<0.001	2.53	9
12.11.2020	No flow	No flow	No flow	No flow	No flow	No flow
2021						
05.05.2021	<0.001	0.07	<0.001	0.001	7.17	6
16.11.2021	<0.001	<0.05	<0.001	<0.001	7.09	8
2022						
25.05.2022	<0.001	<0.005	<0.001	<0.001	6.83	<5
08.11.2022	<0.001	<0.05	<0.001	<0.001	7.93	<5
2023						
05.05.2023	<0.001	<0.05	<0.001	<0.001	7.31	<5
01.11.2023	0.002	<0.05	<0.001	<0.001	7.04	98

license variation						
06.08.2015	Arsenic <0.024 mg	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
2024						
07.05.2024	<0.001	<0.001	<0.001	<0.001	7.26	32
04.11.2024	<0.001	<0.05	<0.001	<0.001	7.17	31
2025						
08.05.2025	<0.001	<0.05	<0.001	<0.001	6.99	<5

Monitoring point No 2
Exit second dam.

Date	Arsenic <0.012 mg/l	Boron <0.180 mg/l	Chrome <0.002 mg/l	Copper <0.002 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
18.05.2015	<0.018	<0.050	<0.003	<0.004	6.9	6
07.07.2015 CHH Re test	<0.018	0.050	<0.003	<0.004	6.8	3
License variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
09.11.2015	0.018	0.70	0.015	0.023	7.00	60
03.12.2015		0.44	0.006	0.017	7.11	110
17.12.2015	No flow	No flow	No flow	No flow	No flow	No flow
12.01.2016	No flow	No flow	No flow	No flow	No flow	No flow
27.01.2016	No flow	No flow	No flow	No flow	No flow	No flow
2016						
26.05.2016	No flow	No flow	No flow	No flow	No flow	No flow
10.06.2016		0.57	0.010	0.012		39
30.11.2016	No flow	No flow	No flow	No flow	No flow	No flow
2017						
04.05.2017	0.003	<0.05	0.002	0.002	7.24	<5
08.11.2017	0.010	0.22	0.004	0.007	7.18	39
06.12.2017			0.009	0.021		
22.12.2017			No flow	No flow		
09.01.2018			0.003	0.004		
2018						
31.05.2018	No flow	No flow	No flow	No flow	No flow	No flow
01.11.2018	0.030	0.20	0.004	0.006	7.10	34
12.11.2018	0.007		0.003	0.010		
29.11.2018			0.009	0.014		
2019						
30.05.2019	No flow	No flow	No flow	No flow	No flow	No flow
25.11.2019	No flow	No flow	No flow	No flow	No flow	No flow
2020						
27.04.2020	0.003	0.06	<0.001	<0.001	6.78	8
12.11.2020	No flow	No flow	No flow	No flow	No flow	No flow
2021						
05.05.2021	0.006	0.08	0.005	0.008	7.28	44
24.05.2021			<0.001	0.003		
16.11.2021	0.011	0.11	0.011	0.012	6.81	35
02.12.2021	0.003	<0.05	0.002	0.003		
2022	<0.001	<0.05	<0.001	<0.001	6.90	<5
25.05.2022	>0.001	<0.005	<0.001	<0.001	6.83	5
08.11.2022	<0.001	<0.05	<0.001	<0.001	7.73	5

License variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
2023						
05.05.2023	0.009	0.14	<u>0.007</u>	<u>0.009</u>	7.11	31
29.05.2023			<u>0.003</u>	<u>0.004</u>		
14.06.2023			0.001	<u>0.002</u>		
01.11.2023	0.002	0.09	<u>0.002</u>	<u>0.002</u>	6.64	23
23.11.2023			<u>0.004</u>	<0.001		
15.12.2023				0.002		
2024						
07.05.2024	0.004	<0.05	<u>0.002</u>	<u>0.002</u>	7.35	26
29.05.2024			<0.001	<u>0.001</u>		
13.06.2024				<0.001		
04.11.2024	0.002	0.07	<0.001	<0.001	7.12	8
2025						
08.05.2025	0.010	<0.05	<u>0.012</u>	0.008	6.86	24
20.05.2025			<u>0.008</u>			
11.06.2025			<0.001			

Monitoring point No 3
Railway culvert

Date	Arsenic <0.012 mg/l	Boron <0.180 mg/l	Chrome <0.002 mg/l	Copper <0.002 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
18.05.2015	<0.018	<0.050	<0.003	0.007	7.1	6
01.06.2015				0.005		
07.07.2015	<0.018	0.054	<0.003	<0.004	6.9	3
License variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
09.11.2015	0.012	0.69	0.010	0.018	7.19	44
03.12.2015		0.47	0.004	0.017		
17.12.2015	No flow	No flow	No flow	No flow	No flow	No flow
12.01.2016	No flow	No flow	No flow	No flow	No flow	No flow
27.01.2016	No flow	No flow	No flow	No flow	No flow	No flow
2016						
26.05.2016	No flow	No flow	No flow	No flow	No flow	No flow
10.06.2016		0.52	0.008	0.011		
31.11.2016	No flow	No flow	No flow	No flow	No flow	No flow
2017						
04.05.2017	0.002	<0.05	<0.001	<0.001	7.42	<5
08.11.2017	0.006	0.19	0.002	0.004	7.44	10
06.12.2017			0.020	0.031		
22.12.2017			No flow	No flow		
09.01.2018			0.003	<0.001		
2018						
31.05.2018	No flow	No flow	No flow	No flow	No flow	No flow
01.11.2018	0.008	0.18	0.003	0.005	2.17	45
12.11.2018			0.001	0.002		
29.11.2018			0.001	0.004		
2019						
30.05.2019	No flow	No flow	No flow	No flow	No flow	No flow
25.11.2019	No flow	No flow	No flow	No flow	No flow	No flow
2020						
27.04.2020	0.002	0.07	<0.001	<0.001	7.2	6
12.11.2020	No flow	No flow	No flow	No flow	No flow	No flow
2021						
05.05.2021	0.005	0.07	0.005	0.007	7.29	49
24.05.2021			<0.001	<0.001		
16.11.2021	0.011	0.11	0.009	0.010	7.0	21
02.12.2021	0.002	<0.05	<0.001	0.002		
2022						
25.05.2022	<0.001	<0.05	<0.001	<0.001	6.95	<5
08.11.2022	0.002	<0.05	<0.001	<0.001	7.64	<5
28.11.2022						17

License variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
2023						
05.05.2023	0.002	0.09	<u>0.002</u>	<u>0.002</u>	7.04	21
29.05.2023			0.001	<0.001		
01.11.2023	NSW	NSW	NSW	NSW	NSW	NSW
2024						
07.05.2024	0.003	0.05	0.001	0.002	7.37	26
29.05.2024				<0.001		
04.11.2024	0.005	0.07	0.002	0.003	7.29	<5
25.11.2024			<0.001	0.002		
11.12.2024				<0.001		
2025						
08.05.2025	0.010	<0.05	0.010	0.009	6.93	24
20.05.2025			0.008			
11.05.2025			<0.001			

Monitoring point No 4
Tallawudjah Creek Road

Date	Arsenic <0.012 mg/l	Boron <0.180 mg/l	Chrome <0.002 mg/l	Copper <0.002 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
18.05.2015	<0.018	<0.050	<0.003	<0.004	6.9	7
07.07.2015	<0.018	0.036	<0.003	<0.004	6.9	4
license variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
09.11.2015	0.011	0.30	0.006	0.006	7.03	49
03.12.2015		0.32	0.005	0.012		
17.12.2015	No flow	No flow	No flow	No flow	No flow	No flow
12.01.2016	No flow	No flow	No flow	No flow	No flow	No flow
27.01.2016	No flow	No flow	No flow	No flow	No flow	No flow
2016						
26.05.2016	No flow	No flow	No flow	No flow	No flow	No flow
10.06.2016			0.004	0.007		
30.11.2016	No flow	No flow	No flow	No flow	No flow	No flow
2017						
04.05.2017	0.004	<0.05	<0.001	0.001	7.25	<5
08.11.2017	0.009	0.10	0.002	0.002	7.30	61
06.12.2017			0.001	0.003	7.18	8
22.12.2017			No flow	No flow		
09.01.2018			0.002	0.001		
2018						
31.05.2018	No flow	No flow	No flow	No flow	No flow	No flow
01.11.2018	0.005	0.18	<0.001	<0.001	6.98	5
2019						
30.05.2019	No flow	No flow	No flow	No flow	No flow	No flow
25.11.2019	No flow	No flow	No flow	No flow	No flow	No flow
2020						
27.04.2020	0.004	<0.05	0.001	<0.001	7.23	6
12.11.2020	No flow	No flow	No flow	No flow	No flow	No flow
2021						
05.05.2021	0.006	<0.05	0.006	0.006	7.27	43
24.05.2021			<0.001	<0.001		
16.11.2021	0.004	0.10	<0.001	0.001	7.13	<5
2022						
25.05.2022	0.006	<0.05	0.002	0.007	7.03	7
15.06.2022			<0.001	0.004		
08.11.2022	0.005	<0.05	0.002	0.002	7.51	86
28.11.2022						15

license variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
2023						
05.05.2023	0.010	0.07	<u>0.004</u>	<u>0.003</u>	7.04	9
29.05.2023			<u>0.007</u>	<u>0.006</u>		
14.06.2023			<u>0.042</u>	<u>0.082</u>		
01.11.2023	NSW	NSW	NSW	NSW	NSW	NSW
2024						
07.05.2024	0.006	<0.05	<u>0.007</u>	<u>0.003</u>	7.45	<5
29.05.2024			<u>0.001</u>	<u>0.001</u>		
13.06.2024			<0.001	<0.001		
04.11.2024	0.006	<0.05	<0.001	0.001	7.13	102
25.11.2024						10
2025						
08.05.2025	0.008	<0.05	0.002	0.001	6.48	33
20.05.2025			0.004			
11.06.2025			<0.001			

Monitoring point No 5
Ground water

Date	Arsenic <0.012 mg/l	Boron <0.180 mg/l	Chrome <0.002 mg/l	Copper <0.002 mg/l	Water table height
18.05.2015	<0.018	<0.050	<0.003	0.006	2.0 m
01.06.2015				0.004	2.0 m
07.07.2015	<0.018	0.054	<0.003	<0.004	2.0 m
License variation					
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	Water table height
09.11.2015	0.003	<0.05	<0.001	0.001	2.5 mtrs
2016					
26.05.2016	0.008	<0.05	0.004	0.008	4.0 mtrs
07.06.2016	0.002	<0.05	0.002	0.005	2.0 mtrs
04.07.2016	<0.001	<0.05	<0.001	0.002	2.0 mtrs
30.11.2016	0.015	<0.05	0.044	0.056	3.0 mtrs
12.12.2016	0.002	<0.05	0.005	0.008	3.0 mtrs
18.01.2017	<0.001	<0.05	0.002	0.003	4.0 mtrs
08.02.2017	<0.001	<0.05	0.002	0.008	4.0 mtrs
2017					
04.05.2017	<0.001	<0.05	<0.001	0.001	3.0 mtrs
08.11.2017	0.002	<0.05	0.003	0.007	2.5 mtrs
06.12.2017			<0.001	0.003	2.5 mtrs
2018					
31.05.2018	<0.001	<0.05	<0.001	<0.001	3.0 mtrs
01.11.2018	0.001	<0.05	0.006	0.009	3.0 mtrs
12.11.2018			0.002	0.003	3.0 mtrs
29.11.2018			<0.001	0.008	3.0 mtrs
2019					
30.05.2019	0.002	<0.05	0.004	0.004	2.5 mtrs
25.11.2019	0.002	<0.05	0.014	0.010	3.0 mtrs
03.12.2019			0.048	0.036	3.5 mtrs
12.12.2019			0.003	0.007	3.5 mtrs
2020					
27.04.2020	0.007	<0.05	0.004	0.004	3.5 mtrs
13.05.2020			<0.001	0.001	3.5 mtrs
12.11.2020	<0.001	<0.05	<0.001	<0.001	3.0 mtrs
2021					
05.05.2021	0.004	<0.05	0.001	0.002	2.0 mtrs
16.11.2021	0.10	<0.05	0.002	0.002	2.0 mtrs
02.12.2021	<0.001	<0.05	<0.001	0.001	2.0 mtrs
2022					
25.05.2022	0.007	<0.05	0.003	0.001	1.5 mtrs
08.11.2022	0.015	<0.05	0.004	0.012	2.0 mtrs
28.11.2022			<0.001	0.008	2.0 mtrs

License variation					
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	Water table height
2023					
05.05.2023	0.005	<0.05	<u>0.002</u>	<u>0.008</u>	3.0 mtrs
29.05.2023			<u>0.011</u>	<u>0.038</u>	3.0 mtrs
14.06.2023			<u>0.006</u>	<u>0.020</u>	3.0 mtrs
01.11.2023	<u>0.036</u>	0.14	<u>0.040</u>	<u>0.044</u>	3.5 mtrs
23.11.2023		<0.05	<0.001	<u>0.006</u>	3.5 mtrs
15.12.2023				<u>0.014</u>	3.5 mtrs
2024					
07.05.2024	0.005	<0.05	<0.001	<u>0.004</u>	2.0 mtrs
29.05.2024				<u>0.014</u>	2.0 mtrs
13.06.2024				<u>0.005</u>	2.0 mtrs
04.11.2024	<u>0.027</u>	<0.05	<u>0.002</u>	<u>0.011</u>	2.0 mtrs
25.11.2024	0.008		<u>0.001</u>	<u>0.004</u>	2.0 mtrs
11.12.2024			<u>0.002</u>	<u>0.010</u>	2.0 mtrs
2025					
08.05.2025	0.007	<0.05	<0.001	<u>0.003</u>	2.0 mtrs
20.05.2025				<u>0.037</u>	2.0 mtrs

Monitoring point No 6
Downstream railway line

License variation						
06.08.2015	Arsenic <0.024 mg/l	Boron <0.370 mg/l	Chrome <0.001 mg/l	Copper <0.0014 mg/l	pH 6.5 to 8.5	TSS <50 mg/l
2017						
04.05.2017	0.003	<0.05	<0.001	<0.001	6.77	<5
08.11.2017	0.020	0.12	<u>0.019</u>	<u>0.031</u>	6.83	<u>62</u>
06.12.2017			<u>0.013</u>	<u>0.027</u>	6.83	<u>77</u>
22.12.2017			No flow	No flow		No flow
09.01.2018			<0.001	0.002	6.9	7
2018						
31.05.2018	No flow	No flow	No flow	No flow	No flow	No flow
01.11.2018	0.006	<0.05	<0.001	<0.001	6.58	<5
2019						
30.05.2019	No flow	No flow	No flow	No flow	No flow	No flow
25.11.2019	No flow	No flow	No flow	No flow	No flow	No flow
2020						
27.04.2020	0.005	<0.05	<0.001	<0.001	7.09	8
12.11.2020	No flow	No flow	No flow	No flow	No flow	No flow
2021						
05.05.2021	0.006	<0.05	<u>0.008</u>	<u>0.005</u>	7.29	24
24.05.2021			<0.001	<0.001		
16.11.2021	0.006	<0.05	<0.001	<0.001	6.88	<5
2022						
25.05.2022	0.002	<0.05	<u>0.005</u>	<u>0.003</u>	6.80	46
08.11.2022	0.001	<0.05	<0.001	<0.001	7.0	7
28.11.2022						21
2023						
05.05.2023	<0.001	<0.05	<0.001	<0.001	6.95	6
01.11.2023	0.003	<0.05	<0.001	<u>0.004</u>	6.62	<u>172</u>
23.11.2023				<u>0.005</u>		
15.12.2023				<u>0.010</u>		<u>169</u>
2024						
07.05.2024	0.022	<0.05	<u>0.033</u>	<u>0.008</u>	7.15	20
29.05.2024			<0.001	<0.001		
04.11.2024	0.002	<0.05	<0.001	<0.001	6.82	<5
2025						
08.05.2025	0.007	<0.05	<0.001	<u>0.003</u>	6.76	9
20.05.2025				<0.001		

Review Date	Reviewed By	Approved by	Comments or Changes
July 2015	CHH RMcC		Initial issue
Sept 2015	CHH		Added License variations
Jan 2017	CHH		Added Monitoring point No 6