

MINERAL CONCENTRATE SHIPLOADER

Water Quality Monitoring Results (mg/L) – Monthly when discharge

May 2025															Comments		
Sampled: 20/05/25					Received: 04/06/25					Posted: 09/06/25							
EPL5 (STW3BDY)								EPL6 (STW2BDY)									
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn			
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss			Tot
6.7	6	0.06	0.11	0.02	0.07	0.79	0.85	6.5	24	0.21	0.62	0.04	0.47	3.15	3.60		
April 2025															Comments		
Sampled: 23/04/25					Received: 05/05/25					Posted: 08/05/25							
EPL5 (STW3BDY)								EPL6 (STW2BDY)									
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn			
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss			Tot
6.6	5	0.10	0.16	0.05	0.12	0.47	0.49	6.8	65	0.03	0.65	0.01	0.70	0.33	1.40		
March 2025															Comments		
Sampled: 31/03/25					Received: 16/04/25					Posted: 29/04/25					Cu total due to discharge from emergency cleaning of Tippler reporting to STW3BDY. No discharge to harbour and pit cleaned post sampling.		
EPL5 (STW3BDY)								EPL6 (STW2BDY)									
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn			
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss			Tot
6.8	11	0.09	3.98	0.07	0.48	0.87	1.12	6.7	6	0.08	0.09	0.03	0.09	0.65	0.65		
February 2025															Comments		
Sampled: 12/02/25					Received: 19/02/25					Posted: 19/02/25							
EPL5 (STW3BDY)								EPL6 (STW2BDY)									
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn			
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss			Tot
6.57	50	0.181	0.196	0.084	0.098	1.39	1.45	6.60	9	0.198	0.214	0.206	0.259	1.190	1.220		

Cu total due to discharge from emergency cleaning of Tippler reporting to STW3BDY. No discharge to harbour and pit cleaned post sampling.

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Water Quality Monitoring Results (mg/L) – Monthly when discharge

May 2024																Comments
Sampled: 01/05/2024				Received: 16/05/2024				Posted: 16/05/2024								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
7.0	7	0.19	0.27	0.05	0.15	0.85	1.11	7.7	<5	0.03	0.05	0.01	0.04	0.24	0.32	
April 2024																Comments
Sampled: 05/04/2024				Received: 17/04/2024				Posted: 16/05/2024								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
6.6	20	0.14	0.31	0.05	0.40	0.76	0.98	6.9	12	0.02	0.16	0.04	0.47	0.22	0.37	
March 2024																Comments
Sampled: N/A				Received: N/A				Posted: N/A								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								No discharge during monitoring period
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
February 2024																Comments
Sampled: 14/02/2024				Received: 20/03/24				Posted: 21/03/24								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
6.1	20	0.16	0.28	0.04	0.22	1.55	1.86	6.1	<5	0.11	0.13	0.09	0.15	0.93	1.02	

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January 2024																Comments
Sampled: 31/01/2024				Received: 22/02/24				Posted: 01/03/24								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
7.0	<5	0.06	0.11	0.03	0.09	0.39	0.43	7.3	<5	0.29	0.34	0.07	0.14	0.76	0.78	
December 2023																Comments
Sampled: 20/12/2023				Received: 23/01/24				Posted: 23/01/24								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
6.7	7	0.42	0.55	0.09	0.30	1.30	1.41	6.8	<5	0.08	0.10	0.03	0.09	1.04	1.02	
November 2023																Comments
Sampled: 05/11/2023				Received: 29/10/23				Posted: 29/11/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
6.5	26	0.21	0.41	0.05	0.32	0.81	1.05	6.3	27	0.07	0.25	0.02	0.27	0.39	0.55	
October 2023																Comments
Sampled: 26/10/2023				Received: 15/11/23				Posted: 18/10/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
7.0	<5	0.34	0.46	0.04	0.12	1.50	1.71	7.1	6	0.14	0.22	0.02	0.09	2.02	2.19	

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September 2023																Comments
Sampled: 28/09/2023				Received: 18/10/23				Posted: 18/10/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
6.9	9	0.16	0.21	0.03	0.11	0.85	0.93	6.9	10	0.05	0.09	0.03	0.10	0.64	0.71	
August 2023																Comments
Sampled: 14/08/2023				Received: 08/09/23				Posted: 08/09/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
6.3	18	0.08	0.31	0.04	0.27	0.72	1.09	6.1	8	0.22	0.40	0.03	0.11	1.09	1.39	
July 2023																Comments
Sampled: 31/07/2023				Received: 10/08/23				Posted: 10/08/23								No discharge during monitoring period
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
June 2023																Comments
Sampled: 23/06/2023				Received: 14/07/23				Posted: 25/07/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss	Tot	
7.1	43	0.19	0.48	0.02	0.47	1.40	1.70	7.3	41	0.11	0.39	0.04	0.51	0.85	1.09	

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May 2023															Comments	
Sampled: 17/05/2023				Received: 15/06/23				Posted: 16/06/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.8	<5	0.20	0.27	0.08	0.19	1.67	1.74	7.0	19	0.07	0.18	0.01	0.16	0.86	0.97	
April 2023															Comments	
Sampled: 20/04/2023				Received: 26/05/23				Posted: 16/06/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.5	23	0.22	0.46	0.07	0.83	1.22	1.69	6.6	<5	0.03	0.06	0.03	0.09	0.49	0.57	
March 2023															Comments	
Sampled: 14/03/2022				Received: 01/05/23				Posted: 16/06/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.5	11	0.15	0.24	0.02	0.11	0.57	0.70	7.2	<5	0.05	0.08	0.01	0.05	0.37	0.43	
February 2023															Comments	
Sampled: 14/02/2023				Received: 24/02/23				Posted: 27/02/23								
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.8	<5	0.43	0.52	0.03	0.07	0.97	1.04	7.0	23	0.06	0.17	0.01	0.21	0.52	0.74	

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September 2022															Comments	
Sampled: NA				Received: 25/10/22				Posted: 25/10/22							No discharge during monitoring period	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
August 2022															Comments	
Sampled: 23/08/2022				Received: 21/09/2022				Posted: 23/09/2022							None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.0	18	0.31	0.41	0.03	0.14	1.52	1.69	7.0	7	0.65	0.73	0.13	0.25	2.80	2.81	
July 2022															Comments	
Sampled: 05/07/2022				Received: 26/07/2022				Posted: 27/07/2022							None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.5	10	0.26	0.62	0.03	0.16	2.22	2.90	6.6	22	0.02	0.17	0.01	0.15	0.30	0.48	
June 2022															Comments	
Sampled: 27/06/2022				Received: 07/07/2022				Posted: 27/07/2022							None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.0	30	0.08	0.22	0.01	0.17	0.80	1.04	6.9	64	0.06	0.34	0.01	0.25	0.44	0.72	

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May 2022															Comments	
Sampled: 23/05/2022								Received: 16/06/2022				Posted: 16/06/2022			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.0	<5	0.11	0.13	0.03	0.07	0.78	0.83	7.2	<5	0.09	0.12	0.03	0.03	0.26	0.28	
April 2022															Comments	
Sampled: 24/04/2022								Received: 11/05/2022				Posted: 12/05/2022			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.9	6	0.05	0.17	0.02	0.08	1.46	1.63	6.8	<5	0.02	0.06	0.02	0.05	0.21	0.24	
March 2022															Comments	
Sampled: 03/03/2022								Received: 24/03/2022				Posted: 25/03/2022			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.1	10	0.49	0.64	0.07	0.23	1.84	2.04	7.7	11	0.03	0.08	0.05	0.13	0.29	0.40	
February 2022															Comments	
Sampled: 02/02/2022								Received: 22/02/2022				Posted: 23/02/2022			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
8.0	<5	0.09	0.16	0.03	0.10	1.26	1.36	7.1	<5	0.02	0.03	0.03	0.05	0.29	0.30	

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Water Quality Monitoring Results (mg/L) – Monthly when discharge

January 2022															Comments	
Sampled: 19/01/2022								Received: 02/02/2022				Posted: 03/02/2022			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.6	24	0.26	0.24	0.02	0.11	0.60	0.50	6.9	18	0.01	0.04	0.02	0.14	0.16	0.28	
December 2021															Comments	
Sampled: N/A								Received: N/A				Posted: N/A			No discharge during monitoring period	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
November 2021															Comments	
Sampled: 10/11/2021								Received: 16/11/2021				Posted: 17/11/2021			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.0	18	0.12	0.21	0.03	0.13	1.01	1.17	6.9	21	0.03	0.13	0.03	0.13	0.60	0.75	
October 2021															Comments	
Sampled: 01/10/2021								Received: 08/10/2021				Posted: 11/10/2021			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.7	22	0.11	0.28	0.03	0.15	0.91	1.10	6.5	21	0.07	0.18	0.02	0.08	2.96	2.89	

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September 2021															Comments	
Sampled: 14/09/2021								Received: 23/09/2021				Posted: 24/09/2021			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.0	14	0.06	0.11	0.01	0.11	0.67	0.79	6.8	8	0.07	0.11	0.01	0.03	0.64	0.75	
August 2021															Comments	
Sampled: 24/08/2021								Received: 31/08/2021				Posted: 01/09/2021			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.8	28	0.10	0.20	0.01	0.12	0.77	1.04	6.7	16	0.06	0.08	0.01	0.04	0.58	0.70	
July 2021															Comments	
Sampled: 16/07/2021								Received: 23/07/2021				Posted: 26/07/2021			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.8	11	0.09	0.24	0.02	0.19	1.08	1.26	6.7	6	0.10	0.17	0.02	0.08	1.30	1.45	
June 2021															Comments	
Sampled: 03/06/2021								Received: 15/06/2021				Posted: 24/06/2021			None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.9	6	0.12	0.14	0.02	0.06	1.00	1.04	7.4	<5	0.04	0.05	0.03	0.05	0.41	0.44	

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May 2021															Comments	
Sampled: 06/05/2021					Received: 17/05/2021					Posted: 17/05/2021					None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.1	7	0.11	0.13	0.02	0.05	0.67	0.72	6.9	6	0.13	0.15	0.04	0.10	1.08	1.07	
April 2021															Comments	
Sampled: 17/04/2021					Received: 17/05/2021					Posted: 17/05/2021					None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
7.1	<5	0.09	0.18	0.02	0.19	0.74	0.91	7.3	9	0.02	0.06	0.02	0.10	0.26	0.33	
March 2021															Comments	
Sampled: 08/03/2021					Received: 14/04/2021					Posted: 16/04/2021					None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.4	26	0.27	0.82	0.06	0.30	1.23	1.76	6.3	17	0.17	0.31	0.06	0.18	1.36	1.49	
February 2021															Comments	
Sampled: 06/02/2021					Received: 18/03/2021					Posted: 22/03/2021					None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.5	8	0.14	0.16	0.08	0.13	1.2	1.2	6.7	6	0.13	0.15	0.04	0.08	0.62	0.63	

MINERAL CONCENTRATE SHIPLOADER
Water Quality Monitoring Results (mg/L) – Monthly when discharge

January 2021															Comments	
Sampled: 04/01/2021					Received: 03/03/2021					Posted: 10/03/2021					None	
EPL5 (STW3BDY)								EPL6 (STW2BDY)								
pH	TSS	Cu		Pb		Zn		pH	TSS	Cu		Pb		Zn		
		Diss	Tot	Diss	Tot	Diss	Tot			Diss	Tot	Diss	Tot	Diss		Tot
6.3	8	0.09	0.14	0.07	0.15	1.3	1.4	6.0	8	0.10	0.12	0.04	0.07	0.61		0.65