

Appendix VIII

Annual Status Form				
AUTHORIZATION NUMBER:		7008		
AUTHORIZATION TYPE:		Effluent, Permit		
LEGAL AUTHORIZATION HOLDER NAME:		Quinsam Coal Corporation		
AUTHORIZED PERSON NAME:		Kathleen Russell		
AUTHORIZED PERSON SIGNATURE:		KR		
SIGNATURE DATE:		June 30, 2023		
<i>I understand that it is an offense to mislead a government official, and I declare that all of the information presented is accurate and true. I have been given the authority by the authorization holder to sign this form.</i>				
CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN	
Section 1	AUTHORISED DISCHARGES			
Section 1.1	This subsection applies to the discharge of effluent from the NORTH COAL MINING OPERATION AND COAL PREPARATION PLANT. The site reference number for this discharge is E207409			
Section 1.1.1	The maximum and average authorized rates of discharge are 0.32 m³/s and 0.08 m³/s respectively. The authorized discharge period is 365 d/a.	No	The maximum flow rate observed was below 0.32 m3/s. The average annual flow rate was 1.2 % above permitted rates (0.094 m3/s). Refer to the Annual Report, Section (6.1.1). Average calculated as an "annual average" over 365 d/a. Appendix I, Table 25.	
Section 1.1.2	The characteristics of the discharge shall not exceed the specified permit limits (See 1.1.2 of PE7008).	Yes	All parameters were within the specified permit limits.	
Section 1.1.5	The location of the facilities from which the discharge originates is Block 26, Block 120 and Block 148, Comox Land District.	Yes	N/A	
Section 1.1.6	The location of the point of discharge is Block 120, Comox Land District.	Yes	N/A	
Section 1.2	This subsection applies to the discharge of effluent from the SOUTH COAL MINING OPERATION. The site reference number for this discharge is E218582.			
Section 1.2.1	The maximum and average authorized rates of discharge are 0.46 m³/s and 0.10 m³/s, respectively. The authorized discharge period is 365 d/a.	Yes	Both annual maximum flow (0.349 m3/s) and annual average flow (0.024 m3/s) were well below the permitted rates . Refer to the Annual Report, Section (6.2).	
Section 1.2.2	The characteristics of the discharge from the South Mining Operation shall not exceed the specified permit limits.	Yes	Annual Report, Section (8..2.1)	
Section 1.2.3	The authorized works are surface runoff collection and diversion ditches, flocculation facilities, settling pond, 3 pit sumps (1S, 2S and 3S Pits), an adit sump (4S Adit), pumping facilities, and related appurtenances approximately located.	No	Permit amendment needs to occur to remove 1S , 4S audit sump. The flocculation facilities include the treatment system cells Aeration lagoon and Settling pond.	
Section 1.2.5	The location of the facilities from which the discharge originates is Block 98 and Block 149, Comox Land District.	Yes	N/A	
Section 1.2.6	The location of the point of discharge is Block 149,Comox Land District.	Yes	N/A	
Section 1.3-1.3.6	This subsection applies to the discharge of effluent from the BLOCK 242 COAL MINING OPERATION as shown on attached Site Plan C. The site reference number for this discharge is E225796.	Yes	No discharge occurred from this site during 2022-2023. Site is non-operational and reclaimed. November 1, 2019 permit amendment authorized removing monitoring from the permit.	
Section 1.4	This subsection applies to the discharge of effluent from the 7 SOUTH MINING OPERATION. The site reference number for this discharge is E292069.	Yes	N/A	
Section 1.4.1	The maximum authorized rate of discharge is 0.005 m³/s. The authorized discharge period is 365 d/a.	Yes	Discharge did not occur in 2022 /2023.	
Section 1.4.2	The characteristics of the discharge from the 7 South Mining Operation shall not exceed the specified permit limits.	Yes	Discharge did not occur in 2022 /2023.	
Section 1.4.5	The location of the facilities and point of discharge is Block 120, Comox Land District, except part in plan 12164, 13574, 13641, VIP53617 and VIP64817.	Yes	N/A	
Section 2	Specific Requirements			
Section 2.1	North Coal Mining and Coal Preparation Plant Operation (Settling Pond #4)			
Section 2.1.1	Rate of Discharge: The maximum flow of 0.32 m³/s is the peak routed outflow from the settling pond resulting from the following inputs: a) The assumed response of the gravity fed catchment area defined in Subsection 2.1.3 up to a 1 in 10 year return period rainfall of 24 hour duration; and b) The maximum combined pumping rate from the 2-North portal sump, 2-North underground workings; and the tailings facility, as specified in Subsection 2.1.2. The Director may from time to time redefine the maximum outflow based upon actual on-site measurements.	Yes	Combined pumping rates from all of 2-North mine are, including catchment of precipitation is measured continuously at Settling Pond #4 discharge. See Appendix I, Table 25.	
Section 2.1.2	Pumping Rate: The combined rate at which effluent may be pumped from the 2-North portal sump, 2-North underground workings and the tailings facility to the settling pond shall not exceed 0.32 m³/s unless authorization has been obtained from the Director. Pumping rates shall be decreased as necessary to accommodate flows as defined in Subsection 2.1.1 (a).	Yes	Combined pumping rates from all of 2-North mine are, including catchment of precipitation is measured continuously at Settling Pond #4 discharge. See Appendix I, Table 25.	
Section 2.1.3	Catchment Area: The gravity drained settling pond catchment area shall not exceed 4 hectares unless authorization has been obtained from the Director.	Yes	N/A	
Section 2.1.4	Wash Plant Effluent: Wash plant effluent shall not be conveyed to the 2-North pit sump via the wash plant ditch. The Permittee shall keep records of the date, duration and estimated volume of any overflow from the wash plant effluent sump. Subject to review of this data, the Director may request changes to the works.	Yes	When operating all fine tailing are directed to the tailings impoundment or underground 2-North Mine. No mining has occurred.	
Section 2.1.5	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 2,300 m³. The removed solids shall be disposed of in a manner approved by the Director.	No	Settled solids in the settling pond have not accumulated to a point that requires them to be removed. Settled solids have accumulated to a point that requires them to be removed (1.0m) only around the decant riser. The pond has sufficient volume.	
Section 2.1.6	Discharge Routing: The discharge from the settling pond shall be conveyed to Middle Quinsam Lake in a manner acceptable to the Director.	Yes	N/A	
Section 2.1.7	Effluent Characteristics (for Total Suspended Solids): The characteristics of the effluent with respect to total suspended solids shall be equivalent to or less than the levels specified in Subsection 1.1.2 for discharge rates of up to 0.32 m³/s (or as may be redefined by the Director according to Subsection 2.1.1). Variances may be allowed by the Director for higher discharge rates. The Director may as well, in the future, establish a maximum level for total suspended solids during extreme storm events.	Yes	All TSS results were within permit limits. See Appendix 1, Table 5.	
Section 2.2	South Coal Mining Operation (Settling Pond #1)			
Section 2.2.1	Rate of Discharge: The maximum flow of 0.46 m³/s is the peak routed outflow from the settling pond resulting from an assumed response of the maximum equivalent catchment area as defined in Subsection 2.2.2 to a design 1 in 10 year return period rainfall of 24 hour duration. The Director may from time to time redefine the maximum routed outflow based upon actual on-site measurements.	Yes	See Appendix I, Table 26.	
Section 2.2.2	Catchment Area: The maximum equivalent settling pond catchment area shall not exceed 68.4 hectares as defined in the South Pit Water Management. Settling Pond 1, Quinsam Coal Project. Ker, Priestman and Associates Limited, March 1990 unless authorization has been obtained from the Director.	Yes	N/A	
Section 2.2.3	Settling Pond Solids and Storage Volume: Settled solids which have accumulated in the settling pond shall be removed as required to maintain a minimum water depth below the pond decant of 1.0 m and a minimum water storage volume of 1400 m³. The removed solids shall be disposed of in a manner approved by the Director.	Yes	Settled solids in the settling pond have not accumulated to a point that requires them to be removed.	
Section 2.2.4	Discharge Routing: The discharge from the settling pond shall be conveyed to Long Lake through the adjacent wetlands as specified in Figure 1, South Pit Water Management. Settling Pond 1, Quinsam Coal Project, Ker, Priestman and Associates Limited, March 1990.	Yes	N/A	

Authorized Person Initial: 

Date: 2023/06/29

CONDITION NUMBER	CONDITION DESCRIPTION	COMPLIANT? (Yes/No/ND)	ACTION TAKEN
Section 4.1.2	South Coal Mining Operation		
Section 4.1.2 (i)	Decant - SPD (EMS # E218582)	No	Refer to Annual Report, Appendix 1, Table 2.
Section 4.1.2 (ii)	Culvert, Downstream End of Access Road - SPC (EMS # E217014)	Yes	
Section 4.1.2 (iii)	South Pit Main Sump Water- 3S (EMS # E217015) Missing weekly pH/Conductivity.	Yes	
Section 4.1.2 (iv)	Additional Monitoring Sites Schedule: 2-South Pit In Pit Water Cover (2S) EMS # E292127	Yes	
Section 4.3	Block 242 Coal Mining Operation	Yes	NA - Area is non-operational and reclaimed.
Section 4.1.4	7 South Mining Operation		
Section 4.1.4 (i)	Decant - 7SSD (EMS # E292069)	Yes	
Section 4.1.4 (ii)	7-South Adit Sump EMS # E292110	Yes	NA - This pond is never pumped to 7S Settling Pond.
Section 4.2	Receiving Environment Monitoring Sites and Monitoring Requirements		
Section 4.2.1 (i)	Initial Dilution Zone Monitoring Sites - Long Lake Entrance- LLE (EMS # E292130)	Yes	
Section 4.2.1 (ii)	Road Crossing bridge on Stream 1 above the Lower Wetland -7S (EMS # E292109).	No	Refer to the Annual Report, Appendix I, Table 2. Missing 1/ 12 monthly samples.
Section 4.2.2	Seep Monitoring Sites		N/A
Section 4.2.2 (i)	Long Lake Seep- LLS / LLSM (EMS # E292131)	Yes	Unauthorized discharge.
Section 4.2.3	Receiving Water (Stream and Lakes) Monitoring Sites. As per Table 4.2.3 North Mining Operation: Quinsam River at Argonaut Road (WA) (EMS # 0126402), Outflow from Middle Quinsam Lake (WB) (EMS # 0900504), South Mining Operation: Long Lake Outlet (LLO) (EMS # E219412), No Name Lake Outlet (NNO)(EMS # E217017). (EMS # E217017) 7-South Mining Operation (Areas 1 to 4): Quinsam River downstream of 7 South Mining Operation (7SQR) (EMS # E292113), 7-South Area 5 Mining Operation: Iron River upstream of 7SA5 (IR6) (EMS # E297231), Iron River downstream of 7SA5 and 242 inputs (IR8) (EMS # E297232), Quinsam River downstream of confluence with Iron River (IRQR) (EMS # E299256).	No	No monitoring occurred at Block 242 Mining Operation: Iron River upstream of 242 influence (EMS #E225798) Iron River downstream of 242 influence (EMS # E225808). These sites are captured at IR6 and IR8.
Section 4.2.4	Sediment and Benthic Monitoring Sites	NA	N/A
Section 4.2.4 (i)	7-South Area 5 sediment proposal	Yes	N/A
Section 4.2.5	Stream Monitoring Requirements		
Section 4.2.5 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.3 (E292112)- Lower Wetland Outlet (LWO).	Yes	N/A
Section 4.2.6	Lake Monitoring Requirements		
Section 4.2.6 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.3.	No	E206619) Long and (E206618) Middle Quinsam Lakes - Depth Profiling for pH. No results for pH except at 1, 4, 9 and 1MB (1/5 weeks)
Section 4.2.7	Sediment Benthic Monitoring Requirements	No	Partial program was performed on the Quinsam River as a result of the mine in care and maintenance.
Section 4.2.7 (i)	General Requirements Applicable to All Sites Defined Under Section 4.2.4	N/A	N/A
Section 4.3	Additional Monitoring Requirements		
Section 4.3.1	Composite sampling	No	Missing (7/13) weekly TSS composite samples at Settling Pond 1 and 4
Section 4.3.2	Continuous Flow Recording	Yes	
Section 4.3.3	Iron River Flow Monitoring	No	Annual Report, Appendix I, Table 2. Missing summer continuous flow (5 weeks) due to flow monitoring equipment malfunction.
Section 4.3.4	pH and Conductivity Monitoring	Yes	
Section 4.3.5	Monitoring of Seeps	Yes	Annual Report Appendix I, Tables 3, 20, 21, 29 34, 35 and 36.
Section 4.3.6	Groundwater Observation Wells	Yes	Groundwater results and discussion is integrated into the Annual Report, Refer to Appendix I, Tables 4, 31 to 36 and Appendix VI.
Section 4.3.7	Monitoring of Drainage Ditches and Water Channels	Yes	Operations are checked daily by either the environmental technician or shift bosses.
Section 4.3.8	Precipitation Monitoring	Yes	Annual Report, Appendix I, Table 30.
Section 4.3.9	Block 242 Monitoring	N/A	Not operational, area has been reclaimed
Section 4.4	Monitoring Procedures	Yes	N/A
Section 4.4.1	Sampling and Analytical Procedures	Yes	N/A
Section 4.5	Reporting	Yes	N/A
Section 4.5.1	7 South Area 5 Reporting	Yes	No mining has occurred since 2019.