



Burgundy Diamond Mines Limited ASX: Burgundy
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Ph: +61 8 6313 3945
ABN: 33 160 017 390

November 9, 2024

Jamie Steele, Manager, Diamond Resource Management
North Slave Regional Office
Department of Lands
Government of the Northwest Territories
#16 Yellowknife Airport Yellowknife, NT
X1A 3T2

RE: W2022L2-0001: 2024 Two Rock Sedimentation Pond to Horseshoe Lake Discharge Summary Report

Dear Mr. Steele,

Arctic Canadian Diamond Company Ltd, Licence holder and subsidiary of Burgundy Diamond Mines Ltd. (Burgundy) presents this summary report on discharge activities for the Two Rock Sedimentation Pond (Two Rock) to Horseshoe Lake for the 2024 open water season. Discharge activities were completed on Sep 11, 2024. This summary report is in accordance with Water Licence W2022L2-0001 Part E, Condition 6: *Within 60 days of completion of Dewatering or Drawdown of any water source, excluding Grizzly Lake, Little Lake, and Thinner Lake, the Licensee shall submit a Summary Report in accordance with Schedule 4, Condition 3 to the Board and an Inspector.*

The information provided includes:

1. Pumping summary and erosional issues identified and mitigative actions taken (if required).
2. Pump inspection summary and measured flow rates.
3. Summary Impact to the Environment
4. Results of water quality monitoring during Discharge.

A pre-approval water sample was collected from Two Rock (SNP station 0008-Sa3) on May 27, 2024 (C438812). Burgundy requested authorization from the Inspector to commence discharge from Two Rock to Horseshoe Lake on June 20, 2024. Following the request to the inspector, authorization to discharge from Two Rock to Horseshoe Lake was granted on June 20, 2024.

Pumping started on August 3, 2024, and continued as detailed below:

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Start: 3-August-2024, at 7:20

Stop: 7-August-2024, at 8:20

Start: 10-August-2024, at 14:00

Stop: 10-August-2024, at 14:02

Start: 12-August-2024, at 7:20

Stop: 11-September-2024, at 10:20

In addition to the pre-approval sample collected on May 27, 2024, discharge samples were collected on the first day, weekly and on the last day of discharge as well as the toxicity test, and sublethal toxicity test collected during discharge.

Pumping Summary

Burgundy was granted pumping authorization to Discharge from the Two Rock Sedimentation Pond to Horseshoe Lake on June 20, 2024. Discharge from the Two Rock Sedimentation Pond to Horseshoe Lake occurred between August 3, 2024, to September 11, 2024. Weekly water quality sampling during this discharge period met the Effluent Quality Criteria (EQC) for all grab samples (Table 2).

A total of 258,340 m³ of water was Discharged from the Two Rock Sedimentation Pond into Horseshoe Lake. The most current elevation at Two Rock indicates 487.08 m (masl). A complete summary of daily discharge activities and pumping inspection results can be found in Table 1. During daily discharge and pump inspections no erosional concerns were identified.

Summary Impact to the Environment

Currently there are no identified environmental impacts due to discharge activities that occurred in 2024. The Aquatic Effects Monitoring Program (AEMP) is in place to detect potential mine-related effects in the Receiving Environment and any potential issues will be identified through triggers in the Aquatics Response Framework. Additional details on any potential mine-related effects at these sites will be included in the annual AEMP Report.

We trust this report is clear and informative. If you have any questions or comments, please contact the undersigned by email at richard.ehlert@burgundydiamonds.com or by phone at (867) 880-4400 ext. 2157.

Sincerely,

A handwritten signature in blue ink, appearing to read "R. Ehlert".



Richard Ehlert
Environment Team Leader, Operations
Burgundy Diamond Mines

Enclosures (9): Certificates of analyses:

C438812, C454226, C460552, C462640, C464875, C469899, C469930, C471599, C473831

cc. William Liu - Manager, Environmental Reporting & Permitting
Jonah Kelly - Team Lead, Environmental Operations
Tania Robitaille - Advisor, Environment Operations
Landon Murphy - Advisor, Environment Operations
Sheila Chernys - Head of Health, Safety, Environment, Communities & Training
Rhiana Bams – Regulatory Specialist, WLWB
Anneli Jokela - Regulatory Manager, WLWB

Record # HSE RDC ENV 2011
Document Owner: Environment Department



Table 1. Pump Inspection Summary for Two Rock Sedimentation Pond to Horseshoe Lake.

Inspection Date	Time	Pump Running	Flow Rate (m3/hr)	Volume (m3)	Total / Rollover Volume (m3)	Discharge Color
3-Aug-24	10:22	Y	339	1,161.00	1,161.00	Colourless
4-Aug-24	8:27	Y	347	9,050.00	9,050.00	Colourless
5-Aug-24	11:00	N	0	17,116.00	17,116.00	N/A
6-Aug-24	15:36	Y	476	18,024.00	18,024.00	Colourless
7-Aug-24	8:19	N	0	24,322.00	24,322.00	N/A
10-Aug-24	14:00	Y	425	24,368.00	24,368.00	N/A
12-Aug-24	16:12	Y	360	27,678.00	27,678.00	Colourless
13-Aug-24	14:07	Y	341	35,204.00	35,204.00	Colourless
14-Aug-24	10:15	Y	332	42,040.00	42,040.00	Colourless
15-Aug-24	10:06	Y	338	50,216.00	50,216.00	Colourless
16-Aug-24	10:59	Y	358	58,769.00	58,769.00	Colourless
17-Aug-24	15:46	Y	358	68,750.00	68,750.00	Colourless
18-Aug-24	8:17	Y	345	74,424.00	74,424.00	Colourless
19-Aug-24	8:57	Y	353	82,956.00	82,956.00	Colourless
20-Aug-24	15:08	Y	341	93,106.00	93,106.00	Colourless
21-Aug-24	14:01	Y	333	100,777.00	100,777.00	Colourless
22-Aug-24	9:00	Y	328	107,043.00	107,043.00	Colourless
23-Aug-24	9:25	Y	325	114,993.00	114,993.00	Colourless
24-Aug-24	10:50	Y	323	123,200.00	123,200.00	Colourless
25-Aug-24	8:51	N	0	128,238.00	128,238.00	N/A
26-Aug-24	11:04	Y	309	131,642.00	131,642.00	Colourless
27-Aug-24	15:13	Y	298	140,159.00	140,159.00	Colourless
28-Aug-24	10:42	Y	304	146,081.00	146,081.00	Colourless
29-Aug-24	11:30	Y	302	153,573.00	153,573.00	Colourless
30-Aug-24	15:02	Y	301	161,835.00	161,835.00	Colourless
31-Aug-24	9:02	Y	296	167,410.00	167,410.00	Colourless
1-Sep-24	16:35	Y	350	177,171.00	177,171.00	Colourless
2-Sep-24	15:36	Y	356	185,205.00	185,205.00	Colourless
3-Sep-24	15:21	Y	345	193,332.00	193,332.00	Colourless
4-Sep-24	12:07	Y	333	200,481.00	200,481.00	Colourless
5-Sep-24	15:38	Y	358	209,995.00	209,995.00	Colourless
6-Sep-24	11:15	Y	347	216,814.00	216,814.00	Colourless
7-Sep-24	14:57	Y	357	226,563.00	226,563.00	Colourless
8-Sep-24	9:29	Y	350	233,070.00	233,070.00	Colourless
9-Sep-24	16:39	Y	348	243,982.00	243,982.00	Colourless
10-Sep-24	9:32	Y	351	249,804.00	249,804.00	Colourless
11-Sep-24	10:20	Y	0	258,340.00	258,340.00	N/A



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Table 2: Two Rock Sedimentation Pond Water Quality results compared against EQCs

Sample ID	Maximum Average Concentration	Maximum Concentration Any Grab Sample	0008-SA3 (Pre-App)	0008-SA3	0008-SA3	0008-SA3	0008-SA3	0008-SA3	0008-SA3	0008-SA3	0008-SA3	0008-SA3	0008-SA3
Date Sampled			27-May-24	15-Jul-24	3-Aug-24	12-Aug-24	19-Aug-24	26-Aug-24	4-Sep-24	9-Sep-24	11-Sep-24		
BV Job Number			C438812	C454226	C460552	C462640	C464875	C469899	C469930	C471599	C473831		
Physical Tests													
Hardness (CaCO3)			46.1	67.8	57.5	67.3	63.5	66.5	75.5	80.6	80.1		
pH	6-9		7.30	7.2	6.82	6.42	6.48	6.85	6.43	6.72	6.14		
Solids	15		1.1	12	<1.0	4.3	<0.99	<1.0	<1.0	1.8	<1.0		
Turbidity	10		2.7	3.1	<0.10	2.3	<0.10	1.5	0.12	1.6	<0.10		
Anions and Nutrients													
Ammonia (N)	4		0.0	0.015	0.023	0.048	0.018	0.041	0.033	0.033	0.029		
Nitrate (N)	20		0.9	0.77	0.64	0.84	1.1	1.4	1.9	2.3	2.5		
Nitrite (N)	1		0.0	0.0064	0.0059	0.0056	0.0056	0.0052	0.0061	0.0071	0.005		
Phosphorus (P)	0.2		<0.0020	0.0022	0.0039	0.0073	0.0032	0.0042	0.0024	0.0091	0.0025		
Total Metals													
Aluminum (Al)	1		0.1	0.2	0.017	0.11	0.038	0.012	0.01	0.15	0.017		
Arsenic (As)	0.05		0.00	0.00049	0.00046	0.00048	0.0005	0.00049	0.00043	0.00039	0.00047		
Copper (Cu)	0.02		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Cadmium (Cd)	0.0015		<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020		
Chromium (Cr)	0.02		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Lead (Pb)	0.01		0.00038	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00031	<0.00020		
Zinc (Zn)	0.03		<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030		
Nickel (Ni)	0.05		0.0054	0.0069	0.0026	0.0038	0.0034	0.0027	0.0027	0.0038	0.0057		
Hydrocarbons													

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Total hydrocarbons C5- C30	3	5	<0.22	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
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