

**Logan Wash Mine Annual Report**

**Permit No. M-1977-424**

**Table 8. Logan Wash Mine Site Monitoring Results, March 2020 to March 2021**

Date	LW-002 <sup>1</sup> Manometer (inches)	LW-001 <sup>2</sup> (L-1 Portal) (gpm)	Upper Manhole <sup>3</sup> (gpm)	Lower Manhole <sup>4</sup> (gpm)	Evaporation/Settling Pond Specific Conductivity (uS/cm)	Comment
01/17/20	NM	NM	2.51	2.20	Frozen	Conduct pond monitoring. Unable to access mine bench by vehicle.
3/10/20	NM	NM	2.07	2.10	22049/9234	Conduct pond monitoring. Unable to access mine bench by vehicle.
4/15/20	0.0	0.72	1.71	2.11	22259/9647	Conduct mine and pond monitoring. Download weather station; launch rain gauge
5/15/20	NM	NM	1.97	2.06	40324/9488	Conduct mine and pond monitoring. Purge well LWCW-1A.
5/26/20	NM	0.58	2.20	No Flow	NM	Semi-annual sampling of LW-001, LW-Retort, LW-003; Lower Manhole not flowing, retort pipeline plugged at Manhole no. 10 on road and spilling to bar ditch.
5/17/20	NM	NM	NM	4.61	NM	Checking for flow at Lower Manhole after pipeline plug removed and retort water turned on.
5/28/20	NM	NM	NM	3.95	NM	Checking for flow at Lower Manhole after pipeline plug removed and retort water turned on.
6/4/20	NM	NM	NM	2.12	NM	Conduct mine and pond monitoring. Semi-annual sampling of LWCW-1A.
6/10/20	NM	NM	NM	2.45	NM	Checking Lower Manhole flow.
6/18/20	NM	NM	NM	NM	NM	DRMS Inspection of retort spill
7/1/20	NM	0.56	NM	NM	NM	State (CPW-CNAP) P. debilis survey.
7/17/20	0.0	0.93	2.02	2.16	140186/10861	Conduct mine and pond monitoring. Download rain gauge; weather station.
8/12/20	0.0	0.49	1.91	2.19	142702/10419	Conduct mine and pond monitoring.
9/17/20	0.0	0.49	2.00	2.06	89875/9735	Conduct mine and pond monitoring. Download weather station; rain gauge
9/30/20	NM	MN	NM	NM	NM	Purged well LWCW-1A
10/7/20	NM	0.52	NM	2.39	NM	Conduct mine and pond monitoring.
10/14/20	0.0	0.51	1.72	1.98	100505/10200	Conduct mine and pond monitoring. Sumps dry
11/12/20	0.0	0.52	1.93	2.13	64317/9399	Conduct pond monitoring. Download rain gauge and weather station
1/30/21	0.0	0.51	1.98	2.44	4193/9199	Conduct pond monitoring. Hiked through snow to Lower Bench. Download weather station; flow meter. Pond sumps dry.
3/3/21	0.0	0.49	1.85	2.65	33749/9047	Conduct mine and pond monitoring. Sumps dry
3/18/21	NM	MN	NM	NM	NM	Settling Pond sump dry