



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: NEWMONT MINING CORPORATION
1655 MOUNTAIN CITY HIGHWAY
ELKO, NV - 89801

Permit Number: NS0095016

Location: GOLD QUARRY, EUREKA
6 MILES NORTH OF CARLIN, CARLIN, NV - 89822
LATITUDE: 40.770805, LONGITUDE: -116.198635
TOWNSHIP: 33N, 34N, RANGE: 51E, 52E, SECTION: 1-4, 6, 7, 10-13, 18, 29,
31, 32, 34-36

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	MILL 5/6 TSF	External Outfall		CARLIN	NV	89822	EUREKA	40.761944	-116.195278	GROUNDWATER
002	MILL 5/6 TSF WEST EXPANSION	External Outfall		CARLIN	NV	89822	EUREKA	40.751944	-116.211944	GROUNDWATER
003	JAMES CREEK TSF	External Outfall		CARLIN	NV	89822	EUREKA	40.772778	-116.199722	GROUNDWATER
004	SUM OF OUTFALLS 001, 002, 003 & 006	Sum		CARLIN	NV	89822	EUREKA	40.770805	-116.198635	GROUNDWATER
005	RECLAIMED WATER	Internal Outfall		CARLIN	NV	89822	EUREKA	40.770805	-116.198635	GROUNDWATER
006	MILL 5/6 TSF EAST EXPANSION	External Outfall		CARLIN	NV	89822	EUREKA	40.746635	-116.176455	GROUNDWATER

General:

Newmont Mining Corporation (Newmont) operates a gold mining and processing quarry on the Carlin Gold Trend in Eureka County, Nevada. Newmont proposes to continue to discharge tailings mixed with sanitary wastewater, septage, and portable toilet waste generated by the workforce at the South Operations Area (SOA) and North Operations Area (NOA) to the Mill 5/6 Tailings Storage Facility (TSF), Mill 5/6 TSF West Expansion, and James Creek TSF. Newmont also proposes to discharge tailings mixed with sanitary wastewater, septage, and portable toilet waste generated by the workforce at the SOA and NOA to the Mill 5/6 TSF East Expansion, which is currently under construction and is expected to be commissioned in 2018. The TSFs are located within the SOA six miles north of Carlin, Nevada in the Maggie Creek Basin of the Tuscarora Range in north-central Eureka County. The NOA is located 22 miles north of Carlin.

The embankment face of the Mill 5/6 TSF and the entire Mill 5/6 TSF West Expansion and Mill 5/6 TSF East Expansion are constructed with 80 mil thick high-density polyethylene liners and are located in areas of the mine site where the groundwater is in excess of 100 feet below ground surface (bgs). Sewage and septage that originates from the various facilities of the SOA and NOA are thoroughly combined with mill tailings prior to discharge. The primary SOA sewage sump includes two grinders. The sewage is discharged with the tailings primarily to the Mill 5/6 TSF and the Mill 5/6 TSF West Expansion. Newmont is also authorized to truck additional septage from the NOA to the SOA for disposal in the Mill 5/6 TSF via the lift station. Septage that originates from the various septic tanks and portable toilets of the SOA and NOA is collected by septage pump trucks and introduced at the lift station, where it is subsequently pumped to either the Mill 5/6 TSF or the Mill 5/6 TSF West Expansion via the Mill 5/6 tails sump.

The sewage is thoroughly mixed with tailings prior to dispersal within the TSFs and there is limited potential

for sewage to accumulate in concentrations that could pose a threat to human health. The liquid fraction of the tailings, with the associated sanitary wastewater, is reclaimed from the TSFs for use as make-up water for milling activities and is monitored quarterly for fecal coliform.

During shut down of Mills 5 and 6, the Permittee is authorized to discharge the sewage directly to either the Mill 5/6 TSF, the Mill 5/6 TSF West Expansion, or the Mill 5/6 TSF East Expansion for a maximum of 30 consecutive days. During maintenance to the Mill 5/6 TSF or Mill 5/6 TSF West Expansion, Newmont is authorized to discharge the tailings/sewage slurry to the James Creek TSF for a maximum of 30 consecutive days.

The SOA has a combined sewer system; therefore, the sewage discharge rate is determined by the estimated waste/sewage flow rates of Uniform Plumbing Code. The septage discharge rate is determined by the number of septic pump trucks dumped into the system. A flow meter records these two discharges as well as stormwater flow collected by the system.

Discharge Characteristics:

The discharge to the TSFs consists of tailings and sewage. The average total sewage flow and average total tailings discharge, calculated from daily maximum values reported between the third quarter of 2010 and the second quarter of 2015, is 22,560 gallons per day (gpd) and 19,416,197 gpd, respectively. There have been no exceedances of permit limits between the third quarter of 2010 and the second quarter of 2015.

Receiving Water:

The receiving water is groundwater of the State underlying the Mill 5/6 TSF, Mill 5/6 TSF West Expansion, Mill 5/6 TSF East Expansion, and James Creek TSF; the groundwater is more than 100 feet below ground surface and reportedly flows southeast. Groundwater degradation due to the permitted discharge is not anticipated.

Summary of Changes From Previous Permit:

Authorization to discharge to the Mill 5/6 TSF East Expansion has been added. The Mill 5/6 TSF East Expansion is currently under construction as is expected to be commissioned in 2018.

Authorization to discharge for a maximum of 14 consecutive days has been increased to a maximum of 30 consecutive days.

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV95016 to NS0095016. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the Permittee as specified below:

Ponds / Rapid Infiltration Basins for Sample Location 001 (Mill 5/6 Tsf) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Volume, total ^[2]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[4]	001	Daily	ESTIMA ^[6]
Flow rate ^[1]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[3]	001	Daily	CALCTD ^[5]
Flow rate ^[1]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[3]	001	Daily	CALCTD ^[5]
Volume, total ^[2]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[4]	001	Daily	ESTIMA ^[6]

Notes (Ponds / Rapid Infiltration Basins):

1. Total Sewage Flow
2. Total Tailings Discharge
Approval based on 14.4 million gallons per day dilution factor.
3. South Operations Area Uniform Plumbing Code variables
Number and volume of fluid from septic pump trucks discharged to the system
4. Total volume of tailings flow discharged to the TSF
5. Sum of sewage, septage, and portable toilet waste.
 - The sewage flow is based on the estimated waste/sewage flow rates of the Uniform Plumbing Code. If the variables used in the application are constant, this must be stated and the same sewage flow rate may be used in the calculation.
 - The septage and portable toilet waste flows are based on a count of the septic pump trucks discharged to the system.
 - All trucks are assumed to be full.
6. Based on the amount of ore processed through Mill 5/6.

Ponds / Rapid Infiltration Basins for Sample Location 002 (Mill 5/6 Tsf West Expansion) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate ^[1]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[3]	002	Daily	CALCTD ^[5]
Flow rate ^[1]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[3]	002	Daily	CALCTD ^[5]
Volume, total ^[2]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[4]	002	Daily	ESTIMA ^[6]
Volume, total ^[2]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[4]	002	Daily	ESTIMA ^[6]

Notes (Ponds / Rapid Infiltration Basins):

1. Total Sewage Flow
2. Total Tailings Discharge
Approval based on 14.4 million gallons per day dilution factor.
3. South Operations Area Uniform Plumbing Code variables
Number and volume of fluid from septic pump trucks discharged to the system
4. Total volume of tailings flow discharged to the TSF
5. Sum of sewage, septage, and portable toilet waste.
 - The sewage flow is based on the estimated waste/sewage flow rates of the Uniform Plumbing Code. If the variables used in the application are constant, this must be stated and the same sewage flow rate may be used in the calculation.
 - The septage and portable toilet waste flows are based on a count of the septic pump trucks discharged to the system.
 - All trucks are assumed to be full.
6. Based on the amount of ore processed through Mill 5/6.

Ponds / Rapid Infiltration Basins for Sample Location 003 (James Creek Tsf) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate ^[1]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[3]	003	Daily	CALCTD ^[5]
Volume, total ^[2]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[4]	003	Daily	ESTIMA ^[6]
Volume, total ^[2]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[4]	003	Daily	ESTIMA ^[6]
Flow rate ^[1]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[3]	003	Daily	CALCTD ^[5]

Notes (Ponds / Rapid Infiltration Basins):

1. Total Sewage Flow
2. Total Tailings Discharge
Approval based on 14.4 million gallons per day dilution factor.
3. South Operations Area Uniform Plumbing Code variables
Number and volume of fluid from septic pump trucks discharged to the system
4. Total volume of tailings flow discharged to the TSF
5. Sum of sewage, septage, and portable toilet waste.
- The sewage flow is based on the estimated waste/sewage flow rates of the Uniform Plumbing Code. If the variables used in the application are constant, this must be stated and the same sewage flow rate may be used in the calculation.
- The septage and portable toilet waste flows are based on a count of the septic pump trucks discharged to the system.
- All trucks are assumed to be full.
6. Based on the amount of ore processed through Mill 5/6.

**Ponds / Rapid Infiltration Basins for Sample Location 004 (Sum Of Outfalls 001, 002, 003, & 006)
To Be Reported Monthly**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate ^[1]	Daily Maximum	<= 40000 Gallons per Day (gal/d)		See Footnote ^[3]	004	Daily	CALCTD ^[5]
Volume, total ^[2]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[4]	004	Daily	ESTIMA ^[6]
Flow rate ^[1]	30 Day Average	<= 40000 Gallons per Day (gal/d)		See Footnote ^[3]	004	Daily	CALCTD ^[5]
Volume, total ^[2]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[4]	004	Daily	ESTIMA ^[6]

Notes (Ponds / Rapid Infiltration Basins):

1. Total Sewage Flow
2. Total Tailings Discharge
Approval based on 14.4 million gallons per day dilution factor.
3. South Operations Area Uniform Plumbing Code variables
Number and volume of fluid from septic pump trucks discharged to the system
4. Total volume of tailings flow discharged to the TSFs
5. Sum of sewage, septage, and portable toilet waste.
- The sewage flow is based on the estimated waste/sewage flow rates of the Uniform Plumbing Code. If the variables used in the applicaton are constant, this must be stated and the same sewage flow rate may be used in the calculation.
- The septage and portable toilet waste flows are based on a count of the septic pump trucks discharged to the system.
- All trucks are assumed to be full.
6. Based on the amount of ore processed through Mill 5/6.

Ponds / Rapid Infiltration Basins for Sample Location 005 (Reclaimed Water) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal, colony forming units	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse ^[2]	005	Monthly	DISCRT
Coliform, fecal, colony forming units	30 Day Average		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse ^[2]	005	Monthly	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. Fecal coliform may be reported in CFU/100mL or MPN/100mL.
2. Reclaimed water, after withdrawal and prior to its point of use at the mill or leaching operation.

Ponds / Rapid Infiltration Basins for Sample Location 006 (Mill 5/6 Tsf East Expansion) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate ^[1]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[3]	006	Daily	CALCTD ^[5]
Flow rate ^[1]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[3]	006	Daily	CALCTD ^[5]
Volume, total ^[2]	Daily Maximum	M&R Gallons per Day (gal/d)		See Footnote ^[4]	006	Daily	ESTIMA ^[6]
Volume, total ^[2]	30 Day Average	M&R Gallons per Day (gal/d)		See Footnote ^[4]	006	Daily	ESTIMA

Notes (Ponds / Rapid Infiltration Basins):

1. Total Sewage Flow
2. Total Tailings Discharge
Approval based on 14.4 million gallons per day dilution factor.
3. South Operations Area Uniform Plumbing Code variables
Number and volume of fluid from septic pump trucks discharged to the system
4. Total volume of tailings flow discharged to the TSF
5. Sum of sewage, septage, and portable toilet waste.
- The sewage flow is based on the estimated waste/sewage flow rates of the Uniform Plumbing Code. If the variables used in the application are constant, this must be stated and the same sewage flow rate may be used in the calculation.
- The septage and portable toilet waste flows are based on a count of the septic pump trucks discharged to the system.
- All trucks are assumed to be full.
6. Based on the amount of ore processed through Mill 5/6.

Rationale for Permit Requirements:

The Permittee will be required to monitor the make-up water for fecal coliform prior to its use at the mill or leaching operation to assess the potential for contamination of the water by the domestic waste.

Fecal Coliform:

Daily Maximum ≤ 23 c.f.u. or mpn/100mL

30-Day Average ≤ 2.2 c.f.u. or mpn/100mL

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

Total sewage flow is limited to the following:

Daily Maximum Flow Rate \leq 40,000 gpd

30-Day Average Flow Rate \leq 40,000 gpd

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within one-mile of the TSFs.

Wellhead Protection Program:

The TSFs are not located within a Wellhead Protection Area or a Drinking Water Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit an updated Operations & Maintenance (O&M) Manual to the Division. If the Permittee determines that no updates to the O&M Manual are necessary, the Permittee shall submit, in lieu of an updated O&M Manual, a letter to the Division stating that no changes to the existing O&M Manual have been made.	5/28/2016

Deliverable Schedule:

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Report	Quarterly	4/28/2016
2	Annual Report	Annually	1/28/2017
3	Sludge Disposal Report	Annually	1/28/2017

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal, Elko Daily Free Press** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **1/18/2016**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Alan Pineda**

Date: **12/8/2015**

Title: **Staff I Associate Engineer**