



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 6, 2025

Randy Ellison, General Manager
Freeport-McMoRan Tyrone Inc.
P.O. Box 571
Bayard, NM 88065

RE: Draft Discharge Permit Renewal, DP-363; 1A and 1B Leach Stockpiles, and East Side Seepage Collection System, Freeport-McMoRan Tyrone Inc.

Dear Randy Ellison:

Notice is hereby given pursuant to Subsection H of 20.6.2.3108 NMAC that the Ground Water Discharge Permit Renewal of the existing Discharge Permit 363 (Discharge Permit or DP-363): 1A and 1B Leach Stockpiles, and East Side Seepage Collection System issued to Freeport-McMoRan Tyrone Mine Inc. (Applicant), has been proposed for approval (copy enclosed). The New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) will publish notice of the availability of the draft Discharge Permit Renewal in the near future and will forward a copy of the notice to you.

Prior to making a final ruling on the proposed DP-363 Discharge Permit Renewal, NMED will allow 30 days from the date of the public notice is published, during which time written comments can be submitted or a public hearing requested. Comments and/or request for a public hearing may be submitted by any interested person of the Applicant. Written comments of hearing requests maybe be submitted to the GWQB either by utilizing the SmartComment portal at <https://nmed.commentinput.com/comment/search> or by email to david.hays@env.nm.gov or mecs.general@env.nm.gov. Hearing requests shall set forth the reasons why a hearing should be held. A hearing will be held only if hearing requests are received from the public or the Applicant during the 30-day comment period and NMED determines there is substantial public interest regarding the proposed DP-363 Discharge Permit Renewal. Hearings are presided over by the NMED Secretary, or a hearing officer appointed by the Secretary.

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Ground Water Quality Bureau | 1190 Saint Francis Drive, PO Box 5469, Santa Fe, New Mexico 87502-5469

Telephone (505) 827-2900 | www.env.nm.gov/gwqb/

NMED has imposed additional conditions on the Renewal of DP-363 that are not requirements of the Copper Mine Rule (20.6.7 NMAC), and are not conditions that can be pulled forward from the existing DP-363 in accordance with Paragraph (2) of 20.6.7.20.B NMAC (leach stockpiles), Paragraph (2) of 20.6.7.21.C NMAC (waste rock stockpiles), Paragraph (2) of 20.6.7.22.B NMAC (copper crushing, milling, concentrator, smelting and tailing impoundments), and Paragraph (2) of 20.6.7.23.B NMAC (pipelines and tanks). Pursuant to Subsection I of 20.6.7.10 NMAC, NMED is providing the following written explanations of the reasons for the additional conditions.

1. Condition C104.B - The reason for this condition is to ensure that all stormwater impoundments, conveyance channels and collection ponds are inspected after one inch rain events to maintain their integrity and function in a manner that is protective of groundwater quality.
2. Condition C105.A - The reason for condition is to keep NMED appraised of any changes to water sources used for dust suppression.
3. Condition C105.B – The reason for this condition is to ensure the sources of water used for dust suppression on any conditionally exempt mine units meet the water quality standards of Section 20.6.2.3103 NMAC to reduce the risk of contamination to ground or surface water.
4. Condition C107.B – The reason for this condition is to ensure the requirement to analyze samples for total and dissolved concentrations, which is allowable under Section 20.6.2.3103 NMAC in instances when the “secretary determines that there is reasonable probability of facilitated contaminant transport by colloids or organic macromolecules.” Please note that Sections 20.6.2.3000 through 20.6.2.3114 NMAC apply to discharges specific to copper mine facilities and their operations.
5. Condition C107.C – The reason for this condition is to require that the Applicant maintain consistent monitoring submittals that aligns with current DP-363 Discharge Permit monitoring practices, including submittal of monitoring reports in both electronic and hard copy format.
6. Condition C107.E.5.a – The reason for this condition is for the Applicant to provide a status update on any recommendations made in previous Seepage Collection System Monitoring and Evaluation Reports (as required by Subparagraph (g) of 20.6.7.2.29.H(6)) to optimize system performance. NMED notes that previous annual reports have provided recommendations but no feedback on whether recommendations were

implemented and/or have improved system performance.

7. Condition C108.B – The reason for this condition is to ensure that contingency plans and schedules are provided should an unforeseen circumstance occur that may have the potential to directly or indirectly impact groundwater quality. This condition is intentionally broad to cover an event or situation not foreseen or covered by Section 20.6.7.30 NMAC that may have the potential to impact groundwater quality.
8. Condition D105.A: The reason for is condition is to ensure that the Applicant properly notifies NMED in the event of any, and all unauthorized discharges so that a determination of applicable reporting requirements can be made pursuant to Section 20.6.2.1203 NMAC and Subsection G of 20.6.7.30 NMAC. Please note that Sections 20.6.2.3000 through 20.6.2.3114 NMAC apply to discharges specific to copper mine facilities and their operations.
9. Condition D105.B: The reason for is condition is to ensure that the Applicant properly submits spill location information and to fulfill location information specified by Subparagraph (c) of 20.6.2.1203.A(1) NMAC. Due to complex and ever-changing geography at mine sites, it is important for the Applicant to provide accurate and consistent spill location information, including location coordinates and/or maps/figures when requested, for proper determination of applicable spill reporting requirements. Please note that Sections 20.6.2.3000 through 20.6.2.3114 NMAC apply to discharges specific to copper mine facilities and their operations.
10. Condition D106.A – The reason for this condition is to ensure that the Applicant submits proper notification prior to destruction or removal of any monitoring wells required under DP-363.
11. Condition D106.B – The reason for this condition is to ensure that the Applicant submits consistent information supporting requests to plug and abandon monitoring wells.
12. Condition D107.D – The reason for this condition is to assert NMED authority to require that the Applicant modify DP-363 should NMED determine that the requirements of 20.6.2 NMAC are being or may be violated, or the water quality standards of Section 20.6.2.3103 NMAC are being or may be violated.

Please review the enclosed draft DP-363 Discharge Permit Renewal carefully for accuracy and completeness, and to make sure you understand what it requires. Please be aware that the proposed DP-363 Discharge Permit Renewal may contain conditions that require the Applicant to implement operational, monitoring, or closure actions by a specified deadline. The Water

Quality Control Commission (WQCC) Regulations, 20.6.2 NMAC and 20.6.7 NMAC, are available online at <https://www.env.nm.gov/gwqb/gw-regulations>.

Any comments relating to this draft DP-363 Discharge Permit Renewal can be sent through the SmartComment portal at <https://nmed.commentinput.com/comment/search> or by email to david.hays@env.nm.gov or meecs.general@env.nm.gov. If written comments or a written request for a hearing are not received during the public comment period, the draft DP-363 Discharge Permit Renewal will become final. Thank you for your cooperation during the review process.

Sincerely,

David Hays

Digitally signed by David
Hays
Date: 2025.11.07
09:22:26 -07'00'

David Hays
Water Resources Professional
Ground Water Quality Bureau

DH:DH

Enclosure: Draft Discharge Permit Renewal, DP-363

Cc: Sherry Burt-Kested, Freeport McMoRan Tyrone Inc. (sburtkes@fmi.com)
Adam Offutt, Freeport McMoRan Tyrone Inc. (aoffutt@fmi.com)
Tyler Johnson, Freeport McMoRan Tyrone Inc. (tjohnson2@fmi.com)
Gila Resources Information Project (grip@gilaresources.info)
Joseph Fox, MECS (joseph.fox@env.nm.gov)
Brad Reid, MECS (brad.reid@env.nm.gov)
Clinton Chisler, MMD (clinton.chisler@emnrd.nm.gov)
Sean Madden, MECS (sean.madden@env.nm.gov)



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

**GROUND WATER QUALITY BUREAU (GWQB)
DISCHARGE PERMIT RENEWAL
EXISTING COPPER MINE FACILITY
Issued under 20.6.2 and 20.6.7 NMAC**

Certified Mail No:
Return Receipt Requested

Mine Facility Name: 1A and 1B Leach Stockpiles, and East Side Seepage Collection System

GWQB Discharge Permit No.: DP-363
GWQB TEMPO AI No.: 527

Permittee Name/Responsible Party: Freeport-McMoRan Tyrone Inc.
Mailing Address: P.O. Drawer 571
Tyrone, NM 88065

Mine Facility Contact: Adam Offutt (575) 912-5809
Mine Facility Location: Highway 90 South
Tyrone Mine Road
Tyrone, NM 88065

County: Grant County

Permitting Action: Renewal
Renewal Effective Date: DATE
Renewal Expiration Date: DATE

NMED Permit Contact: David Hays; (505) 469-8722 or Brad Reid (505) 372-8533
E-mail Address: (david.hays@env.nm.gov)
Or: meecs.general@env.nm.gov

Justin Ball
Chief, Ground Water Quality Bureau
Water Protection Division

Date

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draft

Part A GENERAL INFORMATION

A100 Introduction

- A. The New Mexico Environment Department (NMED) issues this Discharge Permit Renewal, DP-363 (Discharge Permit or DP-363) to Freeport-McMoRan Tyrone Inc. (Permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978, §§ 74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Regulations, 20.6.2 (Ground and Surface Water Protection) and Part 20.6.7 NMAC Ground Water Protection – Supplemental Permitting Requirements for Copper Mine Facilities (Copper Mine Rule). NMED is issuing this Discharge Permit to control the discharge of water contaminants from the 1A and 1B Leach Stockpiles, 1A and 1B PLS Collection Tanks and Overflow Ponds, the East Side Seepage Collection System, and associated facilities for the protection of groundwater and those segments of surface water gaining from groundwater inflow, for present and potential future uses as domestic and agricultural water supply and other uses, and to protect public health.
- B. Pursuant to this Discharge Permit, the Permittee is authorized to discharge up to 16,488,000 gallons per day (gpd) of acidic leach solution (raffinate) to the 1A and 1B Leach Stockpiles for the purpose of leaching copper. In addition, impacted stormwater and leachate from the leach stockpiles and other areas within the DP-363 permit area are regulated pursuant to this Discharge Permit. These discharges may move directly or indirectly into groundwater of the State of New Mexico which has an existing concentration of 10,000 milligrams per liter (mg/L) or less of total dissolved solids (TDS) within the meaning of Section 20.6.2.3104 and Subsection A of 20.6.2.3101 NMAC. The discharge may contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC in compliance with the terms and conditions of this Discharge Permit.
- C. The Permittee is authorized to discharge water contaminants pursuant to this Discharge Permit which requires compliance with 20.6.2 NMAC and 20.6.7 NMAC and is enforceable by NMED.

A101 Applicable Regulations

- A. The Permittee is discharging from a facility that meets the definition of “existing copper mine facility.” Sections 20.6.2.3000 through 20.6.2.3114 NMAC and 20.6.7 NMAC apply to discharges specific to copper mine facilities and their operations.
- B. The discharge from the facilities regulated pursuant to this Discharge Permit are not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

- C. Groundwater quality as observed in monitoring wells required by Condition C108.E of this Discharge Permit and consistent with Subsection B of 20.6.7.28 NMAC is subject to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC except those excluded pursuant to Subsection D of 20.6.7.24 NMAC.

A102 Permit Duration

- A. Pursuant NMSA 1978 § 74-6-5(I) and Subsection H of 20.6.2.3109 NMAC, the term of this Discharge Permit Renewal is **five (5) years** from the effective date.
- B. If the Permittee submits an application for renewal in accordance with Subsection G of 20.6.2.3106 NMAC, and the Permittee is not in violation of the discharge permit on the date of its expiration, then the existing Discharge Permit shall not expire until NMED approves or disapproves the application for renewal.

A103 Terms of Permit Issuance

- A. Permit Fees - As a discharge permit associated with the Freeport-McMoRan Tyrone Inc. copper mine facility, the Permittee shall remit an annual permit fee payment equal to the applicable permit fee based on mine size listed in Subsection A of 20.6.7.9 NMAC on August 1 of each year until termination of all discharge permits for the Freeport-McMoRan Tyrone Inc. [Subsection A of 20.6.7.9 NMAC]
- B. Transfer of Discharge Permit - Prior to the transfer of any ownership, control, or possession of this permitted facility or any portion thereof, the Permittee shall notify the proposed transferee in writing of the existence of this Discharge Permit and include a copy of this Discharge Permit with the notice. The Permittee shall deliver or send by certified mail to NMED a copy of the notification and proof that such notification has been received by the proposed transferee. [20.6.7.38 NMAC and 20.6.2.3111 NMAC]
- C. Permit Renewal – To renew this Discharge Permit, the Permittee shall submit an application and associated fees for renewal at least 270 days prior to the expiration date of this Discharge Permit (by DATE) in accordance with Sections 20.6.7.9, 20.6.7.10, and 20.6.7.11 NMAC.
- D. Additional Conditions - In addition to the requirements of 20.6.7 NMAC, the Permittee shall comply with the following additional conditions as authorized by Subsection I of 20.6.7.10 NMAC pursuant to WQA 74-6-5: Condition C104.B, Condition C105.A, Condition C105.B, Condition C107.B, Condition C107.C, , Condition C107.E.5.a, Condition C108.B, Condition D105.A, Condition D105.B, Condition D106.A, Condition D106.B, and Condition D107.D.

Part B FACILITY SPECIFIC INFORMATION

B100 History and Facility Description

- A. The Tyrone Mine is an open pit copper mine facility owned by Freeport-McMoRan Tyrone Inc. that covers an area of approximately 13,900 acres. The Tyrone mine consists of several open pits, associated waste rock stockpiles, leach stockpiles, collections of the mine, six reclaimed tailing impoundments in the northern portion of the mine, as well as other reclaimed facilities. The Tyrone Mine is regulated pursuant to multiple operational groundwater discharge permits, including DP-363, the Supplemental Discharge Permit for Closure DP-1341, the DP-27 Settlement Agreement, and an abatement plan.
- B. The mine units regulated pursuant to DP-363 that produce discharges that may move directly or indirectly into groundwater include the 1A and 1B Leach Stockpiles and associated 1A and 1B PLS collection systems. Additional mine units regulated pursuant to DP-363 include the East Side Seepage Collection System consisting of interceptor wells and interceptor/barrier trenches located along the toe of the 1A and 1B Leach Stockpiles, and in Upper and Lower Oak Grove Wash. Stormwater from the 1A and 1B Leach Stockpiles is captured in the 1A and 1B Stormwater Ponds respectively. These mine units are described in B103 and shown in Figure 1 attached to this discharge permit. The associated infrastructure includes pregnant leach solution (PLS) collection tanks, PLS overflow ponds, stormwater collection systems, and pipelines. In addition, a small portion of the PLS from the 1A Leach Stockpile reports to the west side of the Gettysburg Open Pit, regulated pursuant to DP-455.
- C. Placement of ore on the 1A and 1B Leach Stockpiles began in 1979, and leaching began in 1985. The leach stockpiles are leached through the application of raffinate which is discharged onto the stockpile surfaces and allowed to percolate through the ore material. The raffinate removes metals from the ore as it passes through the stockpile, and most of the copper laden PLS has a total dissolved solids (TDS) concentration of approximately 90,000 mg/L.
- D. In 2012 and 2013, the 1A and 1B Leach Stockpile outslopes were prepared for reclamation. Material excavated from the 1A outslope was used to buttress the 1B outslope, and the 1A and 1B Leach Stockpile outslopes were terraced in preparation for re-grading and cover placement but were not covered due to continued leaching operations. The 1A and 1B PLS Collection Systems were modified to accommodate post-closure seepage collection.

B101 Permitting History

- A. The Discharge Plan for the DP-363 includes the Discharge Permit Renewal Application dated June 23, 2023, the Facility Monitoring Plan dated May 3, 2024, and material contained in the

Administrative Record prior to issuance of this Discharge Permit. As part of the application process, the Permittee also provided a document dated May 12, 2023, referred to as the Tyrone Master Document (TMD) which address Copper Mine Rule application requirements and is applicable to all the Tyrone Mine discharge permits, including DP-363. In addition, the Discharge Plan includes information and materials submitted as part of the original Discharge Plan approved on January 24, 1985, renewed on October 31, 2006, renewed and modified on May 17, 2012, renewed on March 22, 2019; and amended on March 20, 1998, February 25, 1999, July 28, 2011, May 13, 2015, and June 5, 2025.

B102 Facility Location, Groundwater and Process Water Characteristics

- A. The mine units regulated pursuant to DP-363 are located approximately 10 miles southwest of Silver City at the Tyrone Mine in Sections 23, 24, and 25, Township 19 South, Range 15 West and Sections 19, 28, 29, 30, 33, and 34, Township 19 South, Range 14 West, Grant County, New Mexico.
- B. Groundwater beneath the mine units regulated pursuant to DP-363 ranges from 10 to 90 feet in the alluvial aquifer and 320 to 640 feet in the regional aquifer and had a pre-discharge TDS concentration range of 100-500 mg/L.
- C. The 1A and 1B Leach Stockpiles may contain sulfide materials which, when oxidized, will generate acidic solutions. These acidic solutions react with in-situ minerals to produce Acid Rock Drainage (ARD) that may contain metals, sulfate, and TDS in elevated concentrations above water quality standards of 20.6.2.3.3103 NMAC.
- D. Process water and impacted stormwater discharges regulated pursuant to DP-363, including raffinate, PLS, and ARD may be outside the acceptable range for pH and contain TDS, sulfate, and certain metals in concentrations that exceeded the water quality standards of Section 20.6.2.3103 NMAC.

B103 Authorized Mine Units

This Discharge Permit contains requirements associated with the following mine units as identified in the Discharge Plan. All mine units listed below meet the definition of “existing” mine units pursuant to the Copper Mine Rule and are located outside of the operational Open Pit Surface Drainage Area (OPSDA) as defined by Section 20.6.7.7 NMAC, unless otherwise noted. The location of authorized mine units regulated pursuant to DP-363 are displayed on Figure 1.

A. Leach Stockpiles:

- 1. The contiguous 1A and 1B Leach Stockpiles are permitted to occupy approximately 298 acres. Most of the 1A and 1B Leach Stockpiles are located outside of the OPSDA except

for the northwest, west, and southwest outcrops of the 1B Leach Stockpile and the west outcrop of the 1A Leach Stockpile.

B. Impoundments – Detailed descriptions, including capacities (if applicable), of the following impoundments are described in Appendix D of the Sitewide Water Management Plant (SWMP):

1. 1A PLS Overflow Pond - The 1A PLS Overflow Pond is synthetically lined and located in the southeast corner of the DP-363 permit area, and at the southeast toe of the 1A Leach Stockpile. The 1A PLS Overflow Pond has an approximate volume of 3,258,000 gallons. The 1A PLS Overflow Pond receives overflow from the 1C Stormwater Pond, which is regulated pursuant to DP-396. Fluids collected in the 1A PLS Overflow Pond are pumped to the 1A PLS Collection Tank and from there to the 1B PLS Collection Tank. Fluids are then pumped from the 1B PLS Collection Tank to the SX/EW feed pond which is regulated pursuant to DP-166.
2. 1B PLS Overflow Pond – The 1B PLS Overflow Pond is synthetically lined and located along the eastern toe of the 1B Leach Stockpile and proximal to the 1B PLS Collection Tank. 1B PLS Overflow Pond has an approximate volume of 5,186,000 gallons and receives overflow from the 1B PLS Collection Tank and seepage from the 1AS2T-1 and 1AS2T-2 interceptor trenches. It also receives stormwater from the 1B Stormwater Pond. Fluids collected in the 1B PLS Overflow Pond are pumped to the 1B PLS Tank and from there to the SX/EW Feed Pond.
3. 1A Stormwater Pond – The 1A Stormwater Pond is unlined and located approximately 200 feet north of the 1A PLS Overflow Pond. It has an approximate capacity of 2,000,000 gallons and captures stormwater runoff from the 1A Leach Stockpile. The 1A Stormwater Pond includes a concrete sump from which stormwater is pumped to the 1A PLS Overflow Pond as it collects, avoiding long-term storage of stormwater in the 1A Stormwater Pond.
4. 1B Stormwater Pond – The unlined 1B Stormwater Pond is located approximately 200 feet west of the 1B PLS Overflow Pond. It has an approximate capacity of 2,000,000 gallons and captures impacted stormwater runoff from the 1B Leach Stockpile. Collected solutions are conveyed via gravity pipeline to the 1B PLS Overflow Pond.

C. Sumps, Tanks, Pipelines and Other Containment Systems:

1. 1A PLS Collection Tank – The 1A PLS Collection Tank is located between the 1A PLS Overflow Pond and 1A Stormwater Pond and is constructed of stainless steel with a capacity of approximately 30,000 gallons. It receives PLS from the 1A and 1B Leach Stockpiles, and impacted groundwater from the East Side Seepage Collection System. In

addition, impacted groundwater from the Oak Grove Pond and various trenches in DP-396 flow to the 1A PLS Collection Tank. Overflow from the 1A PLS Collection Tank is piped via gravity to the 1A PLS Overflow Pond. Fluids from the 1A PLS Collection Tank is pumped to the 1B PLS Collection Tank and then to the SX/EW Feed Pond.

2. 1B PLS Collection Tank – The 1B PLS Collection Tank is located 50 feet west of the 1B PLS Overflow Pond and is constructed of stainless steel with a capacity of approximately 47,000 gallons. The tank receives PLS from the 1A and 1B Leach Stockpiles and seepage captured by the 1B North and 1B South Interceptor Trenches. Overflow from the 1B PLS Collection Tank is piped via gravity to the 1B PLS Overflow Pond. The 1B PLS Collection Tank also receives seepage from the reclaimed No. 1 Stockpile and impacted stormwater from the Acid Unloading Facility, both regulated pursuant to DP-896.
3. The East Side Seepage Collection System – The East Side Seepage Collection System, located along the toe of the 1A and 1B Leach Stockpiles and Upper and Lower Oak Grove Wash, collects impacted groundwater, seepage, and process water from the Upper and Lower Oak Grove Wash. Figure 1 attached to this Discharge Permit shows the collection systems associated with this Discharge Permit. Table D-4 of the Sitewide Water Management Plan shows additional details regarding East Side Seepage Collection System components. To summarize, the East Side Seepage Collection System includes the following interceptor wells/trenches/collection systems and flow paths:
 - a. Wells 11, 1A-12 and 1A-30 are perched zone extraction wells.
 - b. Gravity flow perched zone interceptor trenches 1AGFT-1 and 1AGFT-2 convey process water to the 1A PLS Collection Tank via subgrade pipeline.
 - c. 1AS2T-1, 1AS2T-2 and 1AS2T-3 perched zone interceptor trenches are located south of the 1B PLS Collection Tank.
 - d. Oak Grove Interceptor Trench and associated trench wells OGTU-1, OGTU-2, and OGTU-3. These three interceptor wells and the Oak Grove Interceptor Trench are located across the width of Oak Grove Wash; collected solutions are pumped to the 1A PLS Collection Tank.
 - e. Oak Grove Transects 1, 6, 7, and 9 consist of a series of four perched zone extraction well systems situated across the width of Oak Grove Wash located downgradient (east) of the Oak Grove Interceptor Trench; collected solutions are pumped to the 1B PLS Collection Tank .
 - f. Oak Grove Tanks - Two plastic tanks, each with a capacity of 1,200 gallons, are located at Transect 6 in Lower Oak Grove Wash and receive flows from various interceptor wells.
 - g. Upper Oak Grove Transect 1 Tank – This plastic tank has a capacity of approximately 2,000 gallons and receives flows from various interceptor wells.

- h. 1B North and 1B South Interceptor Trenches. The interceptor trenches are located along the eastern toe of the 1B Leach Stockpile. Seepage and PLS are collected in the 1B North and 1B South Inceptor Trenches. Interceptor Well 1BU-1 is located in the 1B North Interceptor Trench. Interceptor Wells 1BU-2 and 1BU-3 are located in the 1B South Interceptor Trench. Seepage and PLS are pumped from the Interceptor Wells 1BU-1, 1BU-2, and 1BU-3 into the 1B PLS Tank.
- 4. Except for the 1AS2T-1, 1AS2T-2, 1B North and 1B South Interceptor Trenches, seepage collected in the East Side Seepage Collection System is conveyed to the 1A PLS Collection Tank. Seepage collected in the 1AS2T-1 and 1AS2T-2 interceptor trenches is pumped to the 1B PLS Overflow Pond. Seepage collected in the 1B North and 1B South Interceptor Trenches is pumped to the 1B PLS Collection Tank.
- 5. Pipelines – Pipelines serving mine units regulated pursuant to DP-363, are constructed of HDPE material and stainless-steel, and range in size from 8 to 30 inches. Pipelines are described in Table 8 and Plate 1b of the TMD.

B104 Authorized Discharges

The Permittee is authorized to discharge water contaminants from the following mine units in accordance with all applicable system design and operational constraints as described in this Discharge Permit and the Discharge Plan.

- A. The Permittee is authorized to discharge a maximum of 16,488,000 gpd of raffinate to the 1A and 1B Leach Stockpiles for the purpose of leaching copper.
- B. The Permittee is authorized to place ore from the Tyrone Mine and Little Rock Mine open pits within the authorized footprint of the 1A and 1B Leach Stockpiles as shown on Figure 1 attached to this Discharge Permit.
- C. The Permittee is authorized to manage discharges associated with the following impoundments, sumps, tanks, seepage collection systems and stormwater collection systems:
 - 1. 1A PLS Overflow Pond
 - 2. 1B PLS Overflow Pond
 - 3. 1A Stormwater Pond
 - 4. 1B Stormwater Pond

- 5. 1A PLS Collection Tank
- 6. 1B PLS Collection Tank
- 7. East Side Seepage Collection System

- D. This Discharge Permit authorizes only those discharges specified herein. Any unauthorized discharges such as spills or leaks must be reported to NMED and remediated as required by Section 20.6.2.1203 NMAC, and any additional requirements listed in this Discharge Permit.
- E. The Permittee shall provide written notice to NMED of the commencement, or recommencement of operations in accordance with Subsection C of 20.6.7.18 NMAC.
- F. The Permittee is authorized to use water from various sources that meet Section 20.6.2.3103 groundwater standards for dust suppression in accordance with C106 of this Permit, unless otherwise authorized by NMED.

Part C FACILITY SPECIFIC REQUIREMENTS

The Permittee shall conduct operations in accordance with the requirements set forth below to ensure compliance with Part 20.6.2 NMAC.

C100 Leach Stockpiles

- A. Design and construction of new leach stockpiles shall be in accordance with applicable requirements of Section 20.6.7.20 NMAC.
- B. The Permittee shall operate the 1A and 1B Leach Stockpiles pursuant to the applicable operational requirements of Subsection C of 20.6.7.20 NMAC.
- C. Pursuant to Paragraph (1) 20.6.7.20.C NMAC, the 1A and 1B Leach Stockpiles shall not exceed the land surface area shown in Figure 1 attached to this Discharge Permit. The Permittee may only expand the land surface area of the 1A and 1B Leach Stockpiles for the purpose of facility closure as approved through the Supplemental Discharge Permit for Closure, DP-1341, or through an NMED-approved permit amendment or modification to DP-363 as described in D107.

C101 Impoundments

- A. Design, construction, and location of all new impoundments shall be in accordance with the Discharge Plan, and applicable requirements of Subsection D of 20.6.7.17 NMAC.

- B. Operation of all impoundments shall be in accordance with the applicable requirements of Subsection F of 20.6.7.18 NMAC.
- C. In accordance with Paragraph (4) of 20.6.7.18.F NMAC, all impoundments shall be maintained to achieve a minimum of 2 feet of freeboard.
- D. Pursuant to Subsection B of 20.6.7.18 NMAC, the Permittee shall submit a construction certification report within 120 days of construction completion of all new impoundments that require a liner system.

C102 Tanks, Sumps, Pipelines, and Other Containment Systems

- A. Design, construction, and location of all new pipelines, tanks, and sumps shall be in accordance with this Discharge Permit, and applicable requirements of Paragraphs (1) and (2) of 20.7.7.17.C NMAC, Subsection C of 20.6.7.18 NMAC, and Subsections A and B of 20.6.7.23 NMAC.
- B. The Permittee shall operate all pipelines, tanks, and sumps in existence on the effective date of the Copper Mine Rule in accordance with the applicable requirements of Subsection C of 20.6.7.23 NMAC and Paragraph (2) of 20.6.7.23.B NMAC.
- C. Detailed and complete construction plans and specifications and supporting design calculations for any proposed or required tanks, pipelines, sumps or other containment systems used for management of tailings, process water or other contaminants, including any replacements thereof, shall be submitted to NMED pursuant to Paragraph (2) of 20.6.7.17.C NMAC, Section 20.6.2.23 NMAC, and Section D107 of this Discharge Permit. The requirement does not apply to portable or temporary tanks, pipelines, sumps, or other containment systems that are subject to periodic relocation during mining operations.
- D. Pursuant to applicable requirements of Paragraph (2) of 20.6.7.23.B NMAC and Subsection J of 20.6.7.33 NMAC, the Permittee shall remove and properly dispose of the tailing, process water, or other materials contained in pipelines, tanks or sumps as soon as they are no longer needed for site operations, water treatment, or other post-closure water management. Any residual tailing, process water, sediments or contaminated water shall be removed from the pipelines, tanks or sumps prior to closure and dispose of the material in a department approved manner. Pipelines may be removed for appropriate disposal or cleaned and buried in place. Sumps may be removed for disposal or cleaned and broken up and buried in place. During pipeline, tank or sump closure, the Permittee shall inspect the entire pipeline, tank or sump area for evidence of past spills and characterize the impacts and potential impacts of such spills. The Permittee shall document all areas where there is evidence of spills and propose to the department appropriate corrective actions pursuant to 20.6.2.1203 NMAC.

Following pipeline, tank or sump removal, the Permittee shall remove for disposal or reclaim in place all acid generating pipeline, tank or sump bedding material that has the potential to impact water quality in excess of the applicable standards.

C103 Groundwater Collection Systems

- A. The Permittee shall perform quarterly inspections of groundwater collection systems, surface water collection sumps, and associated facilities, and perform maintenance as necessary to ensure that all water contaminants intended to be contained by these systems are managed in a manner that is protective of groundwater quality.

C104 Stormwater Management

- A. Stormwater shall be managed in accordance with the applicable requirements of Paragraph (4) of 20.6.7.17.C NMAC, and in accordance with the approved Tyrone Mine Sitewide Water Management Plan required by DP-1236.
- B. To ensure compliance with Paragraph (2) of 20.6.7.17.D NMAC and Paragraph (4) of 20.6.7.17.C NMAC, the Permittee shall inspect all stormwater impoundments, conveyance channels, and collection ponds outside the operational OPSDA on a quarterly basis and as soon as practicable and after precipitation events exceeding one-inch in 24 hours for evidence of excessive sediment buildup and stormwater accumulation that exceed design capacity or intended function of the facility. Facilities to be inspected following 24-hour one inch precipitation events would be determined by the nearest appropriate rain gauge(s).

C105 Dust Suppression

- A. If, at some time in the future, the Permittee chooses to use an alternate source of dust suppression, water or change the location in which discharges have been approved, the Permittee shall notify NMED for approval prior to implementation of a proposed change.
- B. Dust suppression water applied to conditionally exempt mine units shall be conducted using water sources that do not exceed the water quality standards set forth in Section 20.6.2.3103 NMAC.

C106 Flow Measurement

- A. Pursuant to Paragraph (2) of 20.6.7.18 E NMAC, and Subsection F of 20.6.7.29 NMAC, the Permittee shall visually inspect all flow meters, used for compliance with Copper Mine Rule, on a monthly basis for evidence of malfunction, and repair or replace malfunctioning flow meters within 30 days of discovery, or as soon as practicable following discovery.

C107 Monitoring and Reporting

- A. Water quality monitoring and reporting shall be in accordance with applicable requirements of Sections 20.6.7.28 and 20.6.7.29 NMAC. The Permittee shall identify, collect, preserve, transport, analyze, and report samples of groundwater, surface water, seepage water, and process water from the facility in accordance with the NMED-approved facility monitoring plan titled, *Sampling and Analysis Plan DP-363, Tyrone Mine (SAP)* dated May 3, 2024, and any additional requirements listed in this Discharge Permit. Table 1 attached to this Discharge Permit provides a summary of the monitoring and reporting requirements.
- B. Samples of stormwater, PLS, seeps, and process water shall be analyzed for total and dissolved concentrations (see Section 20.6.2.3103 NMAC) in accordance with Table 1 of this Discharge Permit. Samples of groundwater shall be analyzed for dissolved concentrations in accordance with Table 1 of this Discharge Permit.
- C. The Permittee shall submit monitoring reports to NMED in both electronic and hard copy format on a semi-annual schedule that contains all quarterly monitoring data and information collected pursuant to the requirements of this Discharge Permit and applicable requirements of Section 20.6.7.29 NMAC. Semi-annual reports are due by February 28 and August 31 of each year. Annual data shall be submitted in the monitoring report due by February 28 of each year.
- D. Changes to monitoring and reporting requirements may require amendment or modification of this discharge permit as required by the Secretary. [20.6.2.7.P NMAC, 20.6.7.7.B(19) NMAC]
- E. Groundwater
 - 1. The Permittee shall monitor groundwater at locations specified by Subsection B of 20.6.7.28 NMAC and listed in Table 1 of this Discharge Permit.
 - 2. Pursuant to Paragraph (1) of 20.6.7.28.B NMAC, the existing monitoring wells listed in Table 1 have been deemed appropriate by NMED for continued use as groundwater monitoring wells under this Discharge Permit. These groundwater monitoring wells, some of which were installed prior to the effective date of the Copper Mine Rule, have been approved by NMED.
 - 3. Pursuant to Subsection G of 20.6.7.28 NMAC, the Permittee shall collect and analyze groundwater from the monitoring wells in accordance with Table 1, and applicable requirements of Subsection F of 20.6.7.28 NMAC. Analytical results shall be submitted in the semi-annual monitoring reports in the format specified by Subsection C of 20.6.7.29

NMAC.

4. Pursuant to Subsection L of 20.6.7.28 NMAC, the Permittee shall submit to NMED groundwater elevation contour map semi-annually and an operational OPSDA map on an annual basis. The maps shall be of appropriate scale, shall include land surface topographic contours with appropriate contour intervals, and shall include the monitoring wells that the groundwater data is based on.
5. Groundwater Collection Systems - The Permittee shall submit an annual Seepage Collection System Monitoring and Evaluation Report for the East Side Collection System that contains the information required by Subsection H of 20.6.7.29 NMAC. The report shall include recommendations for changes to optimize performance of the system(s), as applicable, in accordance with Subparagraph (g) of 20.6.7.29.H(6) NMAC, and be submitted with the DP-363 Annual Monitoring Report due by February 28 of each year.
 - a. The Permittee shall provide a status update on recommendations required by Subparagraph (g) of 20.6.7.29.H(6) NMAC as reported in previous Seepage Collection System Monitoring and Evaluation Reports.

F. Discharge Volumes

1. The Permittee shall measure and report the following discharge volumes in semi-annual monitoring reports pursuant to Subparagraphs (g) and (h) of 20.6.7.20.C(1) NMAC and Subsections E and F of 20.6.7.29 NMAC using appropriate metering devices and/or calculation methods:
 - a. Daily volumes of raffinate (gpd) discharged to the 1A and 1B Leach Stockpiles,
 - b. Daily volumes of PLS (gpd) pumped from the 1B PLS Collection Tank to the SX/EW Feed Pond,
 - c. Monthly average pumping rate of seepage pumped from 1A Interceptor Wells (A-11, 1A-12, and 1A-30) to the 1A PLS Collection Tank,
 - d. Monthly average rate of seepage transferred from the Interceptor Wells 1AGFT-1 and 1AGFT-2 to the 1A PLS Collection Tank,
 - e. Monthly average pumping rate of seepage pumped from OGTU-1, OGTU-2 and OGTU-3 to the 1A PLS Tank,
 - f. Monthly average pumping rate of seepage from the 1B North and 1B South Interceptor Trenches to the 1B PLS Collection Tank,
 - g. Monthly average pumping rate of seepage and impacted water pumped from the Upper Oak Grove Tank to the 1A PLS Collection Tank,

- h. Monthly average pumping rate of seepage from the 1AS2T-1, 1AS2T-2 and 1AS2T-3 interceptor trenches to the 1B PLS Overflow Pond,
- i. Meter readings shall be recorded at intervals no less than once per week and shall be reported in the semi-annual monitoring reports required in Section C106.

G. Flow Measurement

- 1. Pursuant to Subparagraph (a) of 20.6.7.18.E.2 NMAC, the Permittee shall submit a report of repaired or replaced flow meters in the semi-annual monitoring reports that include a description of any flow meter malfunctions with a statement verifying the repair and description of calibration of the flow meter pursuant to Paragraph (3) of 20.6.7.18.E NMAC.

H. Meteorological Data

- 1. Pursuant to Subsection G of 20.6.7.29 NMAC, meteorological data shall be measured as stipulated in the TMD. The data shall be submitted to NMED in the monitoring reports due on February 28th of each year as required by C108.C.

I. Leach Stockpiles

- 1. Pursuant to Subparagraph (b) of 20.6.7.20.C(1) NMAC, the perimeter and solution collection systems of the 1A and 1B Leach Stockpiles shall be inspected monthly.

C108 Contingency Plan

- A. The Permittee shall comply with all applicable contingency requirements and submit to NMED all applicable information or documentation specified in Sections A through J of Section 20.6.7.30 NMAC.
- B. If NMED or the Permittee identifies any other failures of the discharge plan or system not specifically noted in this permit or Section 20.6.7.30 NMAC that may have the potential to impact water quality, NMED may require the Permittee to develop and submit contingency plans and schedules for NMED approval to address such failures. [20.6.2.3107.A.10 NMAC]

C109 Closure Plan

- A. Closure of all mine units associated with this Discharge Permit shall be performed in accordance with the requirements of Section 20.6.7.33 NMAC and Section 20.6.7.34 NMAC, and in accordance with DP-1341, as applicable. Closure and financial assurance requirements associated with facilities authorized by this Discharge Permit are included in DP-1341.

Part D GENERAL CONDITIONS

NMED has reviewed the permit application for the proposed renewal and has determined that the provisions of the Copper Mine Rule and applicable groundwater quality standards will be met in accordance with this Discharge Permit. General conditions pursuant to 20.6.2 NMAC and 20.6.7 NMAC are listed below.

D100 Enforcement

- A. Any violation of the requirements and conditions of this Discharge Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the Permittee to a civil enforcement action pursuant to WQA 74-6-10(A) and (B). Such action may include a compliance order requiring compliance immediately, or in a specified time, assessing a civil penalty, modifying or terminating the discharge permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to the NMSA 1978, Section 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the NMSA 1978, Section 74-6-5, WCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the Permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit. Tyrone does not waive any argument as to the weight such evidence should be given. [74-6-10 WQA, 74-6-10.1 WQA]
- B. Pursuant to NMSA 1978, Section 74-6-10.2(A-F), criminal penalties may be assessed for any person who knowingly violates or knowingly causes or allows another person to:
 - 1. Make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or required to be maintained under the WQA;
 - 2. Falsify, tamper with or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or
 - 3. Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation.

D101 General Inspection and Entry Requirements

- A. Nothing in this Discharge Permit shall be construed as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other applicable law or regulation. [20.6.2.3107 NMAC, NMSA 1978 74-6-9(B) and (E) WQA]
- B. Pursuant to 20.6.2.3107.D NMAC, NMSA 1978 74-6-9(B) and (E) WQA, the Permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials to:
 - 1. Enter at regular business hours or at other reasonable times upon the Permittee's premises or other location where records must be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.
 - 2. Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.
 - 3. Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment or treatment works), practices or operations regulated or required under this Discharge Permit, or under any federal or WQCC regulation.
 - 4. Sample or monitor, at reasonable times for the purpose of assuring compliance with this Discharge Permit or as otherwise authorized by the WQA, any effluent, water contaminant, or receiving water at any location before or after discharge.

D102 General Engineering, Operational and Setback Requirements

- A. New mine units shall be designed in accordance with the applicable requirements of Section 20.6.7.17 NMAC.
- B. Mine units shall be operated in accordance with the applicable requirements of Section 20.6.7.18 NMAC.
- C. Pursuant to Subsection A of 20.6.7.18 NMAC, to the extent practicable, mine units shall be designed and operated in a manner that contemplates the closure plan, including identifying and segregating suitable material to construct covers and consideration of closure grading and drainage plans in the design and construction of operational mine units.
- D. The Permittee shall meet all applicable setback requirements for any new mine units pursuant to Section 20.6.7.19 NMAC.

- E. The Permittee shall provide written notice to NMED of the commencement, or recommencement of operations in accordance with Subsection C of 20.6.7.18 NMAC.

D103 General Record Keeping and Reporting Requirements

- A. The Permittee shall retain written records at the copper mine facility as required pursuant to Section 20.6.7.37 NMAC.
- B. The Permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine whether cause exists for modifying, terminating and/or renewing this Discharge Permit or to determine compliance with this Discharge Permit. The Permittee shall also furnish with NMED, upon request, copies of documents required to be kept by this Discharge Permit. [20.6.2.3107.D NMAC, NMSA 1978 74-6-9 (B) & (E) WQA]

D104 General Sampling and Analytical Methods

- A. Unless otherwise specified by this Discharge Permit, or approved in writing by NMED, the Permittee shall use sampling and analytical techniques that conform with the references listed in Subsection B of 20.6.2.3107 NMAC. [20.6.2.3107.B NMAC, 20.6.7.29.D NMAC]

D105 Reporting Requirements for Unauthorized Discharges

- A. In the event of a spill or release that is not authorized under this Discharge Permit, the Permittee shall initiate the notifications and corrective actions as required in 20.6.2.1203 NMAC and Subsection G of 20.6.7.30 NMAC. The Permittee shall take immediate corrective action to contain and remove or mitigate any damage caused by the discharge. Process water or impacted stormwater or other material that is spilled or released that has the potential to impact water quality shall be contained and pumped to a sump, impoundment, or leach stockpile permitted pursuant to the Copper Mine Rule. Contaminated soils shall be removed and placed in a location specifically authorized in the discharge permit, an alternate location subject to NMED approval, or otherwise properly contained, transferred, or disposed of in a manner that does not result in discharge to non-authorized areas. Within 24 hours after discovery of the discharge, the Permittee shall verbally notify NMED and provide the information required by Paragraph (1) of 20.6.2.1203.A NMAC to determine applicable monitoring and reporting requirements pursuant to Paragraphs (2) and (3) of 20.6.7.29.B NMAC. The Permittee shall repair or replace failed components within 48 hours from the time of failure or as soon as practicable pursuant to Subsection G of 20.6.7.30 NMAC. Within 7 days of discovering a discharge reportable under 20.6.2.1203 NMAC, the Permittee shall submit a written report to NMED verifying the oral notification and providing any additional information or changes. Pursuant to Paragraph (6) of 20.6.2.1203.A NMAC, the Permittee

shall submit a corrective action report within 15 days after discovery of the discharge that describes corrective actions taken and/or to be taken. [20.6.2.1203 NMAC; 20.6.7.29.B(2) and (3) NMAC; Subsection G of 20.6.7.30 NMAC]

- B. As part of the 24-hour spill notification requirements, and to accurately fulfill location information specified by Subparagraph C of 20.6.2.1203.A(1) NMAC, the Permittee shall submit a figure, when required, to NMED by the end of the next business day that clearly displays the location (or locations) of the spill and identifies nearby mine units. Submittal of spill location information in latitude/longitude coordinates in decimal degrees (XX.XXXXXX and -XXX.XXXXXX, respectively), using a specified datum of WGS 84 or Universal Transverse Mercator (UTM) format, is also acceptable.

D106 Monitoring Well Abandonment

- A. The Permittee shall submit a written request for NMED approval in accordance with Condition C107.D at least 30 days prior to the anticipated destruction or removal of any monitoring wells required under this Discharge Permit. After the Permittee receives NMED approval, monitoring well plugging and abandonment shall be completed in accordance with the document titled, *Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions*, Revision 1.1, March 2011, or according to regulations issued by the Office of the State Engineer in Section 19.27.4 NMAC, unless an alternate method is approved by NMED. [20.6.2.3107 NMAC]
- B. The request required in D106.A shall include the following information:
1. A scaled map showing the location of the monitoring well(s) and the mine units it is intended to monitor.
 2. The purpose for plugging and abandoning the monitoring well(s).
 3. Details, if available, on the monitoring well(s) including depth-to-water elevation, top-of-casing elevation, construction and lithologic logs.
 4. Recent (i.e., most recent four quarters of data, or as requested by NMED) groundwater analytical results from the monitoring well(s).
 5. Proposed replacement well(s), if applicable.
 6. The same details, as applicable, listed in Conditions D105.B.1, and D105.B.3 are required for the proposed replacement monitoring well(s). New replacement wells require monitoring well completion reports pursuant to Subsection K of 20.6.7.28 NMAC.

D107 Modifications and Amendments

- A. The Permittee shall notify and obtain approval from NMED of a proposed change to the facility or the facility's discharge that would result in a change in the volume discharged; the location of the discharge; or in the amount or character of water contaminants received, treated, or discharged by the facility, prior to implementing such changes. Such changes may require modification or an amendment to this Discharge Permit, including payment of applicable fees specified in Section 20.6.7.9 NMAC. [20.6.2.3107.C NMAC, 20.6.2.3109.E NMAC, 20.6.7.7.B(19) NMAC, 20.6.7.14 NMAC]
- B. As determined by NMED, for any proposed change that would meet the definition of a discharge permit modification as specified in Subsection D of 20.6.2.7 NMAC, the Permittee shall submit for NMED approval an application for modification of this Discharge Permit pursuant to Section 20.6.7.10 NMAC and 20.6.7.11 NMAC. Plans and specifications shall be included in the request, as applicable, pursuant to Section 20.6.7.17 NMAC.
- C. As determined by NMED, for any proposed change that meets the definition of a discharge permit amendment as specified in Paragraph 19 of 20.6.7.7.B NMAC, the Permittee shall submit a request to NMED for amendment of this Discharge Permit pursuant to Section 20.6.7.14 NMAC. Plans and specifications shall be included in the request, as applicable, pursuant to Section 20.6.7.17 NMAC.
- D. Pursuant to Subsection E of 20.6.2.3109 NMAC, NMED reserves the right to require a discharge permit modification in the event NMED determines that the requirements of 20.6.2 NMAC are being or may be violated, or the standards of Section 20.6.2.3103 NMAC are being or may be violated. This may include a determination that structural controls and/or management practices approved under this Discharge Permit are not protective of groundwater quality, and that more stringent requirements are needed to protect groundwater quality.

D108 Compliance with Other Laws

- A. Nothing in this Discharge Permit shall be construed in any way as relieving the Permittee of the obligation to comply with all applicable federal, state, and local laws, regulations, permits or orders. [20.6.2 NMAC, 20.6.7.8(D) NMAC]

Table 1 – Monitoring and Reporting Summary for DP-363

Monitoring Report Schedule of Submittal (Subsection A of 20.6.7.29 NMAC)						
1	January 1 - June 30 (Q1 and Q2 sampling quarters) – Semi-annual report due by August 31 of each year.					
2	July 1 - December 31 (Q3 and Q4 sampling quarters) – Semi-annual report due by February 28 of each year					
3	Annual reports due by February 28 of each year					
Reporting Summary						
Annual Reporting Frequency	Number of Sites	Description				
2	1	Stockpile Facility groundwater elevation map				
2	NA	Monitoring Reports - general requirements (see Subsection B of 20.6.7.29 NMAC)				
2	NA	Monitoring Reports - analytical requirements (see Subsection C of 20.6.7.29 NMAC)				
1	NA	OPSDA Map				
Monitoring Schedule						
Alluvial Monitoring Wells						
Monitoring Well ID		Sampling Quarter				Notes
Primary MW	Alternate MW	Q1	Q2	Q3	Q4	
1A-8					DTW	
1A-9					DTW	
1A-12			1,2,3		1,2,3	
1A-14			1		1	
1A-17A			1,2,3		1,2,3	
1A-18A	1A-12		1,2,3		1,2,3	
1B-1			1		1	
1B-2			1		1	
BK-2	BK-1, BK-3		1,2,3		1,2,3	
BK-4	BK-5-		1,2,3		1,2,3	
BK-6					DTW	
BK-8			1,2,3		1,2,3	
BK-10	BK-9		1,2,3		1,2,3	
OG-11	OG-12		1		1	
OG-14	OG-29				DTW	
OG-17	OG-18, OG-22		1,2a,3		1,2a,3	
OG-20	OG-19		1,2a,3		1,2a,3	
OG-21			1,2a,3		1,2a,3	
OG-23	OG-24		1,2a,3		1,2a,3	
OG-25			1,2,3		1,2,3	
OG-40	OG-57, OG-58		1,2a,3		1,2a,3	
OG-46			1,2a,3		1,2a,3	

Regional Monitoring Wells						
Monitoring Well ID	Alternate MW	Q1	Q2	Q3	Q4	Notes
363-2005-01			1,2a		1,2a	
363-2005-02			1,2,3		1,2,3	
363-2005-03					DTW	
363-2005-04		1,2,3	1,2,3	1,2,3	1,2,3	
363-2006-01					DTW	
363-2008-04			1,2,3		1,2,3	
363-2011-01					DTW	
363-2012-02			1,2a		1,2a	
363-2018-01					DTW	
383-2005-02					DTW	
383-2008-01					DTW	
MB-4					DTW	
MB-8			1,2,3		1,2,3	
MB-12			1,2a		1,2a	
MB-27			1,2a,3		1,2a,3	
MB-28			1,2,3		1,2,3	
MB-31					DTW	
MB-35			1,2,3		1,2,3	
MB-41			1,2a		1,2a	
MB-42			1,2,3		1,2,3	
MB-43			1,2,3		1,2,3	
Collection Tanks, Ponds, and Interceptor Trenches						
1A PLS Collection Tank			2,3			
1B PLS Collection Tank			2,3			
1A PLS Overflow Pond			2,3			
1B PLS Overflow Pond			2,3			
1A Stormwater Pond				2a,3		
1B Stormwater Pond				2a,3		
1BU-1			1		1	
1BU-2			1		1	
1AGFT-1			1,2,3		1,2,3	
1AGFT-2			1,2,3		1,2,3	
1AS2T-1			1,2,3		1,2,3	
1AS2T-2			1		1	
1AS2T-3			1		1	
OGTU-1*			1,2,3		1,2,3	

DP-363 Flow Meters used for Copper Rule Compliance (Revised Table 10, TMD)		
363RF01	1A Raff Booster to 1B Upper (Raffinate)	
363RF02	1A Raff Booster to 1B Lower (Raffinate)	
363PL01	1A PLS Tank to 1B PLS Tank (PLS)	
363PL02	1B PLS to Process Circuit (PLS)	
363PL03	1B to Landbridge (PLS)	
363PL04	1BU-1 (PLS)	
363PL05	1BU-2 (PLS)	
363SP01	Oak Grove Brick Kiln (Seepage)	
363SP02	Oak Grove Interceptor Trench (OG Trench) (Seepage)	
363SP03	Oak Grove Transects 1, 6, 7, and 9 (OG Mag Meter) (Seepage)	
363SP04	1A-11, 1A-12, and 1A-30 (Seepage)	
<u>Sampling Analytical Suites:</u> Group 1 = Field Parameters: Specific Conductance, pH, temperature, and DTW Group 2 = General Chemistry: alk-HCO ₃ , alk-CO ₃ , alk-Tot, Ca, Cl, F, Mg, K, Na, SO ₄ , TDS Group 2a = Indicator Parameters: SO ₄ and TDS Group 3 = Metals: Al, As, Cd, Cr, Co, Cu, Fe, Pb, Mn, Ni, Se, Zn DTW = depth to water measurement to the nearest 0.01 feet		
Explanation of Abbreviations and Symbols		
<u>Type:</u> MW = Monitoring Well PLS = Pregnant Leach Solution OPSDA = Open Pit Surface Drainage Area. *The monitoring at this site includes seepage from OGTU-2 and OGTU-3 #Alternate MW = to be sampled if primary MW is dry or if no sample can be collected	<u>Sampling Quarters:</u> Q1 = Jan – Mar Q2 = Apr – Jun Q3 = July – Sep Q4 = Oct – Dec	<u>Sampling Analytical Suites:</u> Alk-HCO ₃ =alkalinity-bicarbonate Alk-CO ₃ = alkalinity-carbonate Alk-Tot = alkalinity-total TDS = Total Dissolved Solids SO ₄ = Sulfate Ca = Calcium Mg = Magnesium Na = Sodium K = Potassium F = Fluoride Cl = Chloride Al = Aluminum As = Arsenic Cd = Cadmium Co = Cobalt Cu = Copper Fe = Iron Pb = Lead Mn = Manganese Ni = Nickel Se = Selenium Zn = Zinc Cr = Chromium

Figure 1 - Map Showing Sampling Locations in DP-363

