



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

May 20, 2026

Derek Bailey, Plant Manager
Public Service Company of New Mexico
2401 Aztec Road NE
Albuquerque, New Mexico 87107

RE: Draft Discharge Permit Renewal, DP-306, San Juan Generating Station Solid Waste Disposal Pit

Dear Derek Bailey:

The New Mexico Environment Department (NMED) hereby provides notice to you of the proposed approval of Ground Water Discharge Permit Renewal, DP-306, (copy enclosed), pursuant to Subsection H of 20.6.2.3108 NMAC. NMED will publish notice of the availability of the draft Discharge Permit in the near future for public review and comment and will forward a copy of that notice to you.

Prior to making a final ruling on the proposed Discharge Permit, NMED will allow 30 days from the date the public notice is published in the newspaper for any interested party, including the Discharge Permit applicant, i.e., yourself, to submit written comments and/or a request a public hearing. A hearing request shall set forth the reasons why a hearing is requested. NMED will hold a hearing in response to a timely hearing request if the NMED Secretary determines there is substantial public interest in the proposed Discharge Permit.

Please review the enclosed draft Discharge Permit carefully. Please be aware that this Discharge Permit may contain conditions that require the permittee to implement operational, monitoring or closure actions by a specified deadline.

Please submit written comments or a request for hearing to my attention at the address below, via email to marchell.schuman@env.nm.gov or to pps.general@env.nm.gov, or directly into the NMED Public Comment Portal at <https://nmed.commentinput.com/comment/search>. If NMED does not receive written comments or a request for hearing during the public comment period, the draft Discharge Permit will become final.

Thank you for your cooperation during the review process. Feel free to contact me with any questions at (505) 795-3275.

Sincerely,

**Marchell
Schuman**

Digitally signed by Marchell
Schuman
Date: 2026.05.14 14:38:42 -06'00'

Marchell Schuman, Water Resource Professional III

SCIENCE | INNOVATION | COLLABORATION | COMPLIANCE

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/

Derek Bailey

DATE

Page 2 of 2

Encl: Draft Discharge Permit Renewal, DP-306

cc: Claudette Horn, PNM (electronic copy)

Seth Frederick, PNM (electronic copy)

Cindy Hurtado, PNM (electronic copy)



NEW MEXICO
ENVIRONMENT DEPARTMENT
Ground Water Quality Bureau

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Santa Fe, NM 87502-5469
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Draft: May 20, 2026

GROUND WATER QUALITY BUREAU
DISCHARGE PERMIT
Issued under 20.6.2 NMAC

Facility Name: San Juan Generating Station Solid Waste Disposal Pit
Discharge Permit Number: DP-306
Facility Location: 6800 North County Road
Waterflow, NM
Sections 20 and 29, Township 30 North, Range 15 West

County: San Juan

Permittee: Public Service Company of New Mexico
Mailing Address: Derek Bailey
2401 Aztec Road NE
Albuquerque, NM 87107

Facility Contact: Seth Frederick, Environmental Engineer
Telephone Number/Email: 505-699-3257 / seth.frederick@txnmenergy.com

Permitting Action: Renewal
Permit Issuance Date: DATE
Permit Expiration Date: DATE

NMED Permit Contact: Marchell Schuman
Telephone Number/Email: 505-795-3275 / marchell.schuman@env.nm.gov or
505-827-2900 / pps.general@env.nm.gov

JUSTIN D. BALL
Chief, Ground Water Quality Bureau
New Mexico Environment Department

Date

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ATTACHMENTS

Discharge Permit Summary
Discharge Permit Summary Monitoring and Reporting Summary
New Mexico Environment Department Ground Water Quality Bureau Monitoring Well
Construction and Abandonment Guidelines, Revision 1.1, March 2011 (Monitoring
Well Guidance)

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit Renewal (Discharge Permit or DP-306) to the Public Service Company of New Mexico (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) Ground and Surface Water Protection Regulations, 20.6.2 NMAC.

NMED's purpose in issuing this Discharge Permit, and in imposing the requirements and conditions specified herein, is to control the discharge of water contaminants from San Juan Generating Station Solid Waste Pit (Facility) in order to protect groundwater and those segments of surface water gaining from groundwater inflow for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health. It is NMED's determination in issuing this Discharge Permit that the Permittee has met the requirements of Subsection C of 20.6.2.3109 NMAC. The Permittee is responsible for complying with the terms and conditions of this Discharge Permit pursuant to Section 20.6.2.3104 NMAC; failure to do so may result in enforcement action by NMED (20.6.2.1220 NMAC).

Described below are the activities that produce the discharge, the location of the discharge, and the quantity, quality, and flow characteristics.

The solid waste disposal pit stopped receiving non-hazardous solid waste in March 2025. The Facility will begin closure of the synthetically lined Solid Waste Disposal Pit and then implement post-closure care under this Discharge Permit. Post-closure care is primarily for groundwater monitoring, cover, and revegetation maintenance. Prior to closure of the Facility, The Permittee disposed of up to 2,290 cubic yards per year of non-hazardous solid wastes to the synthetically lined Solid Waste Disposal Pit with a total capacity of 50,000 cubic yards.

This Discharge Permit has an associated Closure Plan, the intent of which it is to prevent the exceedance of the groundwater protection standards of 20.6.2.3103 NMAC after the Facility ceases to operate. The original Closure Plan was approved by NMED on May 11, 2020. The Permittee's obligation to implement the Closure Plan and associated permit requirements survives the termination or expiration of this Discharge Permit. Portions of the Closure Plan may be implemented and completed prior to the cessation of the operation of the Facility.

This Discharge Permit requires financial assurance, a mechanism required of the Permittee to demonstrate that they will have the financial resources to properly close the Solid Waste Disposal Pit when its operational life is over. Associated with financial assurance is the Discharge Permit requirement to produce and keep updated a closure cost estimate intended to sufficiently identify the cost of implementing all aspects of closure as described in the Closure Plan.

NMED approved the Permittee's closure cost estimate on October 30, 2019. NMED approved the Permittee's financial assurance mechanism on May 11, 2020. This Discharge Permit requires the maintenance of sufficient financial assurance during the term of this Discharge Permit and until all closure activities have been successfully accomplished.

Discharge Permit Location Information:

Physical Address	6800 North County Road, Waterflow, NM
Nearest Town/City	Waterflow
Section, Township, Range	Sections 20 and 29, Township 30 North, Range 15 West
County	San Juan
Depth to Groundwater	10 to 40 feet
Pre-Discharge TDS	4,000 to 13,000 milligrams per liter

Discharge Permit Issuance History:

Original Permit Issuance	December 20, 1983
Permit Renewal and Modification	January 11, 1990
Permit Renewal	July 31, 1995
Permit Renewal	July 19, 2002
Permit Renewal	June 5, 2013
Permit Amendment	May 22, 2015
Permit Renewal	January 17, 2018

The application (i.e., discharge plan) associated with this Discharge Permit consists of the materials submitted by the Permittee dated December 12, 2024, and materials contained in the administrative record prior to issuance of this Discharge Permit. The Permittee shall manage the discharge in accordance with all conditions and requirements of this Discharge Permit.

NMED reserves the right to require a Discharge Permit modification in the event NMED determines that the Permittee is or may be violating, or is likely to violate in the future, the requirements of 20.6.2 NMAC or the standards of Section 20.6.2.3103 NMAC. NMED reserves this right pursuant to Section 20.6.2.3109 NMAC. An NMED requirement to modify the Discharge Permit may result from a determination by the department that structural controls and/or management practices approved under this Discharge Permit are insufficiently protective of groundwater quality and human health. NMED reserves the right to require the Permittee to implement abatement of water pollution and remediate groundwater quality.

NMED issuance of this Discharge Permit does not relieve the Permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

This Discharge Permit may use the following acronyms and abbreviations.

Abbreviation	Explanation		Abbreviation	Explanation
BOD ₅	biochemical oxygen demand (5-day)		NMED	New Mexico Environment Department
CAP	Corrective Action Plan		NMSA	New Mexico Statutes Annotated
CFR	Code of Federal Regulations		NO ₃ -N	nitrate-nitrogen
CFU	colony forming unit		NTU	nephelometric turbidity units
Cl	chloride		QA/QC	Quality Assurance/Quality Control
EPA	United States Environmental Protection Agency		TDS	total dissolved solids
Gpd	gallons per day		TKN	total Kjeldahl nitrogen
LAA	land application area		total nitrogen	= TKN + NO ₃ -N
LADS	Land Application Data Sheet(s)		TRC	total residual chlorine
mg/L	milligrams per liter		TSS	total suspended solids
mL	milliliters		WQA	New Mexico Water Quality Act
MPN	most probable number		WQCC	Water Quality Control Commission
NMAC	New Mexico Administrative Code		WWTF	Wastewater Treatment Facility

II. FINDINGS

In issuing this Discharge Permit, NMED finds the following.

1. The Permittee is discharging effluent or leachate from the Facility so that such effluent or leachate may move into groundwater of the State of New Mexico that has an existing concentration of 10,000 mg/L or less of TDS, within the meaning of Subsection A of 20.6.2.3101 NMAC, without exceeding standards of 20.6.2.3103 NMAC for any water contaminant.
2. The Permittee is discharging effluent or leachate from the Facility directly or indirectly into groundwater pursuant to this Discharge Permit and Sections 20.6.2.3000 through 20.6.2.3114 NMAC.
3. The discharge from this Facility has the potential to contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC and is not subject to the exemption at Subsection 20.6.2.3105 NMAC.

III. AUTHORIZATION

The Permittee is responsible for ensuring that discharges authorized by this Discharge Permit are consistent with the terms and conditions herein pursuant to 20.6.2.3104 NMAC.

This Discharge Permit authorizes the Permittee to implement closure of the solid waste pit to include regrading of the solid waste pit contents, removal of existing liner outside final limits of the waste, placement of a minimum 36-inch store and release pond cap with approved soils, with final grades to ensure positive drainage away from the pond cap surface area, with no ponding on the pond cap, installation of stormwater conveyance channels to drain off stormwater, vegetate the pond cap, and modification of fencing around the solid waste pit.

[20.6.2.3104 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection D of 20.6.2.3109 NMAC]

IV. CONDITIONS

NMED issues this Discharge Permit for the discharge of water contaminants subject to the following conditions.

A. OPERATIONAL PLAN

#	Terms and Conditions
1.	The Permittee shall implement the following operational plan to ensure compliance with Title 20, Chapter 6, Parts 2 and 4 NMAC. [Subsection C of 20.6.2.3109 NMAC]
2.	The Permittee shall operate in a manner that does not violate standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC. [20.6.2.3101 NMAC, 20.6.2.3103 NMAC, Subsection C of 20.6.2.3109 NMAC]

Post Closure Operating Conditions

#	Terms and Conditions
3.	The Permittee shall maintain fences around the Facility to restrict access by the general public and animals. The Permittee shall maintain the fences to serve the stated purpose throughout the term of this Discharge Permit. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
4.	The Permittee shall maintain signs indicating that the wastewater at the Facility is not potable until the cover material is in place. The Permittee shall print signs in English and Spanish and shall ensure the signs remain visible and legible for the term of this Discharge Permit.

#	Terms and Conditions
	[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]

B. MONITORING AND REPORTING

#	Terms and Conditions
5.	The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
6.	METHODOLOGY – 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. [Subsection B of 20.6.2.3107 NMAC]

Due Dates for Monitoring Reports

#	Terms and Conditions
7.	Quarterly monitoring - The Permittee shall perform monitoring and other Permit required actions during the following periods and shall submit quarterly reports to NMED by the following due dates: • January 1st through March 31st – due by May 1st; • April 1st through June 30th – due by August 1st; • July 1st through September 30th – due by November 1st; and • October 1st through December 31st – due by February 1st. [Subsection A of 20.6.2.3107 NMAC]

Post Closure Monitoring Actions with Implementation Deadlines

#	Terms and Conditions
8.	Within 60 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall submit a written groundwater monitoring well location proposal for NMED review and approval. The proposal shall designate the installation location of the monitoring well required by this Discharge Permit. The proposal shall include, at a minimum, the following information.

#	Terms and Conditions
	a) A map showing the proposed location of the monitoring well in relation to the boundary of the source it is intended to monitor. b) A written description of the specific location proposed for the monitoring well including the distance (in feet) and direction of the monitoring well from the edge of the source it is intended to monitor and the latitude and longitude coordinates for each well in decimal format. Examples include: 35 feet north-northwest of the northern berm of the synthetically lined impoundment and 35.898306 and -107.281519; 45 feet due south of the leachfield and 35.898306 and -107.281519; and 30 feet southeast of the reuse area and 35.898306 and -107.281519. c) A statement describing the groundwater flow direction beneath the Facility, and documentation and/or data supporting the determination. The Permittee must have NMED's approval of all monitoring well locations prior to their installation. [Subsection A of 20.6.2.3107 NMAC]
9.	Within 120 days of the issuance date of this Discharge Permit (by DATE), the Permittee shall install the following new monitoring well. a) One monitoring well (MW-SWDP-2) located hydrologically downgradient of the Facility. b) The Permittee shall consult with NMED during installation of the monitoring well and the appropriate screened interval. The Permittee shall complete the well in accordance with the attached Monitoring Well Guidance. Unless otherwise noted in this Discharge Permit, the requirement to install a monitoring well downgradient of a source is <u>not</u> contingent upon construction of the Facility, or discharge of wastewater from the Facility. [Subsection A of 20.6.2.3107 NMAC]
10.	Within 30 days following the installation of the monitoring well required by this Discharge Permit, the Permittee shall sample groundwater in MW-SWP-2 and analyze the samples for: • arsenic (As) • boron (B) • cadmium (Cd) • calcium (Ca) • chloride (Cl) • chromium (Cr) • molybdenum (Mo) • nickel (Ni) • potassium (K) • phenols • selenium (Se) • sodium (Na)

#	Terms and Conditions
	• cobalt (Co) • copper (Cu) • fluoride (F) • iron (Fe) • lead (Pb) • magnesium (Mg) • manganese (Mn) • uranium (U) • carbonated (CO₃) • bicarbonate (HCO₃) • nitrate (NO₃) • sulfate (SO₄) • total dissolved solids (TDS) • total radium • pH The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedure. a) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest one-hundredth of a foot. b) Purge three well volumes of water from the well prior to sample collection. c) Obtain samples from the well for analysis. d) Properly prepare, preserve, and transport samples. e) Analyze samples in accordance with the methods authorized in this Discharge Permit. Within 45 days of the installation of the monitoring wells the Permittee shall submit a well completion report to NMED. A well completion report shall at a minimum include: the Office of the State Engineer permit, well construction and lithologic logs, latitude and longitude coordinates for each well in decimal format, depth-to-most-shallow groundwater measurements, analytical results including the laboratory QA/QC summary report, and a facility layout map showing the location and number of each well. The Permittee shall ensure the well completion report addresses each numbered item in the General Drilling and Well Specifications in the attached Monitoring Well Guidelines. [Subsection A of 20.6.2.3107 NMAC]
11.	Within 60 days of the monitoring well completion, the Permittee shall perform a professional survey of all groundwater monitoring wells approved by NMED for Discharge Permit monitoring purposes. The survey shall be tied or referenced to a U.S. Geological Survey (USGS) or other permanent benchmark. Survey data shall include northing, easting and elevation to the nearest one-hundredth of a foot or shall be in accordance with the "Minimum Standards for Surveying in New Mexico" (12.8.2 NMAC). The survey shall bear the seal and signature of a licensed New Mexico professional surveyor (pursuant to the New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority). The Permittee shall utilize the survey to establish an elevation at the top-of-casing, with a permanent marking indicating the point of elevation.

#	Terms and Conditions
	The Permittee shall measure the depth-to-most-shallow groundwater to the nearest one-hundredth of a foot in all surveyed wells [and referenced to mean sea level], and the data shall be used to develop a groundwater elevation contour, i.e., potentiometric surface map showing the location of all monitoring wells including DP-1327 monitoring wells and the direction and gradient of groundwater flow in the uppermost aquifer below the Facility. The Permittee shall submit the data and groundwater elevation contour map to NMED within 30 days of survey completion. [Subsection A of 20.6.2.3107 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]

Groundwater Monitoring Conditions

#	Terms and Conditions
12.	Once installed the Permittee shall perform quarterly groundwater sampling in MW-SWDP-2 and analyze the samples for: • arsenic (As) • boron (B) • cadmium (Cd) • calcium (Ca) • chloride (Cl) • chromium (Cr) • cobalt (Co) • copper (Cu) • fluoride (F) • iron (Fe) • lead (Pb) • magnesium (Mg) • manganese (Mn) • molybdenum (Mo) • nickel (Ni) • potassium (K) • phenols • selenium (Se) • sodium (Na) • uranium (U) • carbonated (CO₃) • bicarbonate (HCO₃) • nitrate (NO₃) • sulfate (SO₄) • total dissolved solids (TDS) • total radium • pH The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedures. a) Measure the depth-to-most-shallow groundwater from the top of the well casing to

#	Terms and Conditions
	the nearest one-hundredth of a foot. b) Purge three well volumes of water from the well prior to sample collection. c) Obtain samples from the well for analysis. d) Properly prepare, preserve, and transport samples. e) Analyze samples in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the depth-to-most-shallow groundwater measurements and the laboratory analytical data results including the laboratory QA/QC summary report and Chain of Custody for each well, and a Facility layout map showing the location and number of each well to NMED in the quarterly monitoring reports. [Subsection A of 20.6.2.3107 NMAC]
13.	NMED shall have the option to perform downhole inspections of all groundwater monitoring wells identified in this Discharge Permit. NMED shall establish the inspection date and notify the Permittee. The Permittee shall remove any existing dedicated pumps at least 48 hours prior to NMED inspection to allow adequate settling time of sediment agitated from pump removal. Should the Permittee decide to install a pump in a monitoring well without a dedicated pump, the Permittee shall notify NMED at least 90 days prior to pump installation so that NMED can schedule a downhole well inspection prior to pump placement. [Subsections A and D of 20.6.2.3107 NMAC]

Facility Post Closure Monitoring Conditions

#	Terms and Conditions
14.	The Permittee shall perform quarterly impoundment cover and embankment integrity inspections. Additional inspections shall occur after storm events of one inch or greater precipitation. Inspection items shall include the following: • Erosion damage to cover, or stormwater controls • Settlement, subsidence, or displacement of the final cap or embankments • Evidence of animal intrusion or burrowing • Evidence of seeps or saturated areas • Reseeding shall take place as needed to maintain a healthy vegetative cover • Clean out sediment in drainage ditches, as appropriate

#	Terms and Conditions
	The Permittee's cover system evaluations shall demonstrate a minimum of 12 years of cap stabilization, including vegetation establishment without additional seed application and minimal erosion of the cover system during the period. The Permittee shall report and take corrective action regarding signs of excessive erosion, subsidence features, slope instability, ponding, development of fissures, or any other feature that may compromise the functional integrity of the cover system. Any corrective actions taken shall be reported in the quarterly monitoring reports. [Subsections A and D of 20.6.2.3107 NMAC]
15.	The Permittee shall measure and record precipitation data on a daily basis, and the data shall be submitted to NMED due on August 1st of each year in the annual Post Closure Progress Report as required in Condition 16. [Subsections A and D of 20.6.2.3107 NMAC]
16.	<u>Post-Closure Progress Reporting:</u> The Permittee shall submit an annual closure progress report (Post Closure Report) to NMED and it shall include at a minimum the following information: • Annual performance review of vegetation to include vegetation density and diversity measurements. If the annual vegetation inspections indicate the vegetation growth is not meeting the agreed upon standard, the Permittee shall propose corrective actions for NMED approval. • Summarize cover activities taken over the year including cover maintenance and corrective actions regarding signs of excessive erosion, subsidence features, slope instability, ponding, development of fissures, or any other feature that may compromise the functional integrity of the cover system. • Summarize activities taken over the year to clean and maintain stormwater conveyances including any corrective actions taken. • Identify all activities that could result in a change to the approved closure plan. Any changes in the approved closure plan must be submitted for NMED approval. • Precipitation logs. • Any additional information the Permittee deems necessary for NMED review. The Permittee shall submit the Post-Closure Progress Report to NMED due October 31st of each year. [Subsection A of 20.6.2.3017 NMAC]

C. CONTINGENCY PLAN

#	Terms and Conditions
17.	In the event that groundwater monitoring indicates that groundwater exceeds a standard identified in Section 20.6.2.3103 NMAC in a monitoring well with no previous exceedances of the chemical constituent at the date of issuance of this Discharge Permit, the Permittee shall collect a confirmatory sample from the monitoring well within 15 days of receipt of the initial sampling results to confirm the initial sampling results. Within 60 days of confirmation of groundwater contamination, the Permittee shall submit to NMED a Corrective Action Plan (CAP) that proposes, at a minimum, contaminant source control measures and an implementation schedule. The Permittee shall implement the CAP as approved by NMED. This condition shall apply until the Permittee completes groundwater monitoring for a minimum of eight (8) consecutive quarterly samples demonstrating groundwater does not exceed the standards of Section 20.6.2.3103 NMAC. Violation of the groundwater standard beyond 180 days after the confirmation of groundwater contamination may cause NMED to require the Permittee to abate water pollution consistent with the requirements and provisions of Section 20.6.2.4101, Section 20.6.2.4103, Subsections C and E of 20.6.2.4106, Section 20.6.2.4107, Section 20.6.2.4108 and Section 20.6.2.4112 NMAC. [20.6.2.3103 NMAC, Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]
18.	In the event that information available to NMED indicates that a well is not constructed in a manner consistent with the attached Monitoring Well Guidance, contains insufficient water to effectively monitor groundwater quality, or is otherwise not completed in a manner that is protective of groundwater quality, the Permittee shall install a replacement well(s) within 120 days following notification from NMED. The Permittee shall survey the replacement monitoring well within 30 days following well completion. The Permittee shall install replacement well(s) at locations approved by NMED prior to installation and shall complete replacement well(s) in accordance with the attached Monitoring Well Guidance. The Permittee shall submit well construction and lithologic logs and survey data to NMED within 60 days following well completion. The Permittee shall properly plug and abandon monitoring well(s) requiring replacement upon completion of the replacement monitoring well(s). The Permittee shall complete

#	Terms and Conditions
	the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well(s) completion. [Subsection A of 20.6.2.3107 NMAC]
19.	In the event that groundwater flow information obtained pursuant to this Discharge Permit indicates that a monitoring well is not appropriately located, e.g., hydrologically downgradient of the discharge location it is intended to monitor, the Permittee shall install a replacement well within 120 days following notification from NMED. The Permittee shall survey the replacement monitoring well within 30 days following well completion. The Permittee shall install the replacement well at the location approved by NMED prior to installation and shall complete the replacement well in accordance with the attached Monitoring Well Guidance. The Permittee shall submit construction and lithologic logs, survey data and a groundwater elevation contour map within 60 days following well completion. The Permittee shall properly plug and abandon a monitoring well requiring replacement upon completion of the replacement monitoring well. The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attached Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well completion. [Subsection A of 20.6.2.3107 NMAC]
20.	In the event that a release occurs that is not authorized under this Discharge Permit (commonly known as a “spill”), the Permittee shall take measures to mitigate damage from the unauthorized discharge and initiate the notifications and corrective actions required in Section 20.6.2.1203 NMAC and summarized below. A release is defined as such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property. Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information. - The name, address, and telephone number of the person or persons in charge of the Facility, as well as of the owner and/or operator of the Facility. - The name and address of the Facility.

#	Terms and Conditions
	c) The date, time, location, and duration of the unauthorized discharge. d) The source and cause of unauthorized discharge. e) A description of the unauthorized discharge, including its estimated chemical composition. f) The estimated volume of the unauthorized discharge. g) Any actions taken to mitigate immediate damage from the unauthorized discharge. Within <u>one week</u> following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED providing the information listed above and any pertinent updates. Within <u>15 days</u> following discovery of the unauthorized discharge, the Permittee shall submit a CAP to NMED describing any corrective actions previously taken and corrective actions to be taken relative to the unauthorized discharge. The CAP shall include the following information. a) A description of proposed actions to mitigate damage from the unauthorized discharge. b) A description of proposed actions to prevent future unauthorized discharges of this nature. c) A schedule for completion of proposed actions. In the event that the unauthorized discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 20.6.2.4103 NMAC, and the water pollution will not be abated within 180 days after notice is required to be given pursuant to Paragraph (1) of Subsection A of 20.6.2.1203 NMAC, NMED may require the Permittee to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC. The Permittee shall not construe anything in this condition as relieving them of the obligation to comply with all requirements of Section 20.6.2.1203 NMAC. [20.6.2.1203 NMAC]
21.	In the event that NMED or the Permittee identifies any failures of the discharge plan, i.e., the application, or this Discharge Permit not specifically noted herein, NMED may require the Permittee to submit a CAP and a schedule for completion of corrective actions to address the failure(s). Additionally, NMED may require a discharge permit modification to achieve compliance with 20.6.2 NMAC. [Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]

D. CLOSURE PLAN

Closure Actions with Implementation Deadlines

#	Terms and Conditions
22.	Within 120 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall properly plug and abandon the following monitoring well. a) SWDP-MW1, (piezometer to Pictured Cliffs Formation--normally dry), intended to intercept leakage from the solid waste pit. The Permittee shall submit the plugging and abandonment report to NMED within 60 days following closure completion. [Subsection A of 20.6.2.3107 NMAC]
23.	Within 120 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall implement the approved Closure Plan (CP) and associated amendments and materials dated June 17, 2015, May 1, 2025, and December 3, 2025. [Subsection A of 20.6.2.3107 NMAC]
24.	Within 90 days following the issuance date of this Discharge Permit (by DATE), the Permittee shall submit a revised detailed closure cost estimate (Estimate). The Estimate shall be based on the cost of hiring a third party to conduct complete closure. The Estimate shall include direct costs associated with third-party implementation of the closure plan, contingency costs in the amount of 15 percent of the direct costs, the cost of an independent project manager and contract administration, and NMED oversight and administration costs, including indirect costs. The Estimate shall forecast the worst-case scenario for complete closure over the five-year period of this Discharge Permit; if a new permit is not issued after five years, the Estimate for the worst-case scenario shall be updated annually each year after five years and any financial assurance shall be adjusted accordingly. The Permittee shall adjust the Estimate for inflation over the five-year period for complete closure and shall project the amount needed for each of the five years for the worst-case scenario for all activities included in complete closure. [Subsection A of 20.6.2.3107 NMAC]
25.	Within 90 days from the date of NMED's approval of the revised closure cost estimate (Estimate), the Permittee shall submit to NMED for approval its revised financial assurance instrument(s) that meets the requirements below. a) The amount of financial assurance shall be sufficient to cover the cost of

#	Terms and Conditions
	implementing complete closure as described in the NMED approved revised closure plan and the Estimate required by Condition 24 of this Discharge Permit. The Permittee shall not propose any form of self-guarantee. The financial assurance instrument(s) shall ensure that funds will be available to implement complete closure if at any time the Permittee is unable, unwilling, or otherwise fails to implement any portion of the closure plan as required by this Discharge Permit. If the financial assurance instrument(s) entails incremental costs of maintaining the instrument(s), i.e., costs for a trustee, the Permittee shall increase the amount of the financial assurance to include all such costs. b) The Permittee shall name NMED as the sole beneficiary in each financial assurance instrument(s). c) The financial assurance instrument(s) shall include a method for adjustments due to changes in inflation, new technologies, and NMED approved revisions to the closure plan based on continued investigations or other information and shall be adjusted no less frequently than every five years such that, at all times, the amount of financial assurance provided by the Permittee shall be sufficient to perform complete closure at any time during the following five years from the update. d) Within 30 days after NMED approves the draft financial assurance instrument(s) the Permittee shall execute the financial assurance instrument and submit it to NMED for final acceptance. e) Within 30 days of the implementation of the financial assurance instrument(s), the Permittee shall establish a trust to receive and disburse funds, which may arise as the result of forfeiture of financial assurance. The trust shall name NMED as the beneficiary. The trust agreement shall be in a form satisfactory to the State Board of Finance and shall be subject to approval by the Governor pursuant to NMSA 1978, § 46-4-1 through 9. The Permittee shall maintain the trust agreement until complete closure has occurred and NMED terminates any existing discharge permit in effect at the time. Upon forfeiture of financial assurance, the forfeited amount shall transfer from the financial assurance instrument into the trust for use by NMED or a third-party for any activities or costs related to complete closure. f) The Permittee may propose alternative financial assurance instrument(s) from time to time subject to NMED's written approval and acceptance. The Permittee shall not replace any approved financial assurance instrument(s) without NMED's written approval. g) Unless released by NMED in writing, the financial assurance instrument(s) shall remain in effect until complete closure and final termination of this Discharge Permit and shall remain in place at all times, including lapses in Discharge Permit coverage, late Discharge Permit renewal, or temporary shutdown of facilities covered under this Discharge Permit.

#	Terms and Conditions
	h) Should circumstances warrant more frequent adjustments than provided for in the approved financial assurance instrument(s), NMED may require them in writing and the Permittee shall make the adjustment within 180 days. i) No more frequently than once every 12 months, the Permittee may request that NMED review remaining activities required for complete closure, including alternate closure activities that NMED has approved. The Permittee's request for review shall describe the activities that have been completed and shall contain an updated Estimate for all remaining complete closure activities. If NMED approves the Permittee's description of activities that have been completed, the remaining activities of complete closure, and the Estimate for remaining complete closure activities, NMED will notify the Permittee of appropriate adjustments that the Permittee may make to the amount of financial assurance. When the WQCC revises the financial assurance regulations and those regulations become effective, the Permittee shall evaluate and, if necessary, revise the financial assurance instrument to comply with the revised WQCC regulations. [Subsection A of 20.6.2.3107 NMAC]
26.	The Permittee shall adhere to the following stipulations for cancellation, non-renewal, forfeiture, or release of the financial assurance instrument(s). a) Cancellation or Non-renewal: Each financial assurance instrument shall require the financial assurance provider to give at least 120 days written notice to NMED and the Permittee prior to cancellation or non-renewal of the financial assurance instrument. If NMED receives notice of cancellation or non-renewal from a financial assurance provider, the Permittee shall propose an alternate financial assurance mechanism to NMED within 30 days of the notice. If NMED approves the alternate financial assurance mechanism, the Permittee shall execute it and submit it to NMED for final acceptance within 30 days of NMED approval. If the Permittee fails to obtain alternate financial assurance acceptable to NMED within 30 days of NMED approval, the current financial assurance shall be subject to forfeiture. b) Forfeiture: If NMED determines that implementation of all or any part of complete closure is required and that the Permittee is unable or unwilling or will otherwise fail to conduct all or any part of complete closure as required by this Discharge Permit, then NMED may proceed with forfeiture of all or part of the financial assurance. Prior to beginning a forfeiture proceeding, NMED will provide written notice by

#	Terms and Conditions
	certified mail to the Permittee and to all financial assurance providers, if applicable. NMED's notice will inform the parties of the determination to forfeit all or a portion of the financial assurance. If NMED's access to the financial assurance is threatened due to time constraints, NMED may begin a forfeiture proceeding and provide written notice contemporaneously with that proceeding. NMED's written notice will state the reasons for the forfeiture and the amount to be forfeited. The forfeited amount shall be based on the total cost of performing complete closure in accordance with this Discharge Permit and all applicable laws and regulations. NMED will also advise the Permittee and all financial assurance providers, if applicable, of the conditions under which forfeiture may be avoided. Such conditions may include an agreement that the Permittee, a financial assurance provider, or an NMED-approved third party, will perform complete closure in accordance with this Discharge Permit and all applicable laws and regulations, and the entity has demonstrated it has the financial ability and technical qualifications to do so. All financial assurance forfeited shall become immediately payable to the trust or as otherwise provided in the NMED-approved instrument. NMED or a third-party will utilize forfeited funds to perform complete closure. If the forfeited amount is insufficient, the Permittee shall be liable for the remaining costs. If the amount forfeited is more than necessary to complete closure, NMED will refund the excess amount to the entity from whom it was collected. c) Release: NMED will release or modify the financial assurance instrument when NMED determines that all activities of complete closure have been performed according to the closure plan requirements of this Discharge Permit and the Discharge Permit has been terminated. [Subsection A of 20.6.2.3107 NMAC]
27.	Within 120 days of completing final closure construction of the solid waste pit the Permittee shall submit a final closure report summarizing the closure activities and to include record drawings to NMED for approval that bear the seal and signature of a licensed New Mexico professional engineer (pursuant to the New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority) for the final closure construction of the solid waste pit. [Subsection A of 20.6.2.3107 NMAC]

Permanent Facility Closure Conditions

#	Terms and Conditions
28.	The Permittee shall implement the approved Closure Plan (CP) and associated amendments and material dated May 22, 2015, May 1, 2025, September 29, 2025, October 15, 2025, and October 23, 2025. [Subsection A of 20.6.2.3107 NMAC]
29.	The Permittee shall continue groundwater monitoring until the Permittee meets the requirements of this condition and groundwater monitoring confirms for a minimum of eight consecutive quarterly groundwater sampling events that groundwater does not exceed the standards of Section 20.6.2.3103 NMAC for all compliance sampling stations under this DP and the required Stage 1 Abatement Plan. This period is referred to as “post-closure.” If at any time monitoring results show an exceedance of a groundwater quality standard in Section 20.6.2.3103 NMAC, the Permittee shall implement the Contingency Plan required by this Discharge Permit. Following notification from NMED that the Permittee may cease post-closure monitoring, the Permittee shall plug and abandon the monitoring well(s) in accordance with the attached Monitoring Well Guidance. When the Permittee has met all closure and post-closure requirements and verified appropriate actions with date stamped photographic evidence or an associated NMED inspection, the Permittee may submit to NMED a written request, including photographic evidence, for termination of the Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]

E. GENERAL TERMS AND CONDITIONS

#	Terms and Conditions
30.	RECORD KEEPING - The Permittee shall maintain a written record of the following: • Information and data used to complete the application for this Discharge Permit; • Information, data, and documents demonstrating completion of closure activities; • Any releases (commonly known as “spills”) not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC;

#	Terms and Conditions
	• The operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater; • Facility record drawings (plans and specifications) showing the actual construction of the Facility and bear the seal and signature of a licensed New Mexico professional engineer; • Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit; • The volume of wastewater or other wastes discharged pursuant to this Discharge Permit; • Groundwater quality and wastewater quality data collected pursuant to this Discharge Permit; • Copies of construction records (well log) for all sampled groundwater monitoring wells pursuant to this Discharge Permit; • The maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit; and • Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including: ○ the dates, location and times of sampling or field measurements; ○ the name and job title of the individuals who performed each sample collection or field measurement; ○ the sample analysis date of each sample; ○ the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis; ○ the analytical technique or method used to analyze each sample or collect each field measurement; ○ the results of each analysis or field measurement, including raw data; ○ the results of any split, spiked, duplicate or repeat sample; and ○ a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used. The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for a minimum of five years. The Permittee shall make the record available to NMED upon request. [Subsections A and D of 20.6.2.3107 NMAC]
31.	SUBMITTALS – The Permittee shall submit both a paper copy and an electronic copy of all notification and reporting documents required by this Discharge Permit, e.g., monitoring reports. The Permittee shall submit paper and electronic documents to the NMED Permit Contact identified on the Permit cover page.

#	Terms and Conditions
	[Subsection A of 20.6.2.3107 NMAC]
32.	INSPECTION and ENTRY – The Permittee shall allow NMED to inspect the Facility and its operations that are subject to this Discharge Permit and the WQCC regulations. NMED may upon presentation of proper credentials, enter at reasonable times upon or through any premises in which a water contaminant source is located or in which any maintained records required by this Discharge Permit, the regulations of the federal government, or the WQCC are located. The Permittee shall allow NMED to have access to and reproduce for their use any copy of the records, and to perform assessments, sampling or monitoring during an inspection for the purpose of evaluating compliance with this Discharge Permit and the WQCC regulations. No person shall construe anything in this Discharge Permit as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other local, state or federal regulations. [Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]
33.	DUTY to PROVIDE INFORMATION - The Permittee shall, upon NMED’s request, allow for NMED’s inspection/duplication of records required by this Discharge Permit and/or furnish to NMED copies of such records. [Subsection D of 20.6.2.3107 NMAC]
34.	MODIFICATIONS and/or AMENDMENTS – In the event the Permittee proposes a 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, the Permittee shall notify NMED prior to implementing such changes. The Permittee shall obtain NMED’s approval (which may require modification of this Discharge Permit) prior to implementing such changes. [Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]
35.	PLANS and SPECIFICATIONS – In the event the Permittee proposes to construct a wastewater system or change a process unit of an existing system such that the quantity or quality of the discharge will change substantially from that authorized by this Discharge Permit, the Permittee shall submit construction plans and specifications of the proposed system or process unit to NMED for approval prior to the commencement of construction.

#	Terms and Conditions
	In the event the Permittee implements changes to the wastewater system authorized by this Discharge Permit that result in only a minor effect on the character of the discharge, the Permittee shall report such changes (including the submission of record drawings where applicable) to NMED prior to implementation. [Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
36.	CIVIL PENALTIES - 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 WQA 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 WQA 74-6-5, the WQCC 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. [20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]
37.	CRIMINAL PENALTIES – No person shall: • Make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or maintained under the WQA; • Falsify, tamper with or render inaccurate any monitoring device, method or record maintained under the WQA; or • Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation. Any person who knowingly violates or knowingly causes or allows another person to violate the requirements of this condition is guilty of a fourth-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who is convicted of a second or subsequent violation of the requirements of this condition is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition or knowingly causes another person to violate the requirements of this condition and thereby causes a substantial adverse environmental impact is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA

#	Terms and Conditions
	1978, § 31-18-15. Any person who knowingly violates the requirements of this condition and knows at the time of the violation that he is creating a substantial danger of death or serious bodily injury to any other person is guilty of a second degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. [20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]
38.	COMPLIANCE with OTHER LAWS - Nothing in this Discharge Permit shall be construed in any way as relieving the Permittee of the obligation to comply with any other applicable federal, state, and/or local laws, regulations, zoning requirements, nuisance ordinances, permits or orders. [NMSA 1978, § 74-6-5.L]
39.	RIGHT to APPEAL - The Permittee may file a petition for review before the WQCC on this Discharge Permit. Such petition shall be in writing to the WQCC within thirty days of the receipt of postal notice of this Discharge Permit and shall include a statement of the issues raised and the relief sought. Unless the Permittee files a timely petition for review, the decision of NMED shall be final and not subject to judicial review. [20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.O]
40.	TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall: • Notify the proposed transferee in writing of the existence of this Discharge Permit; • Include a copy of this Discharge Permit with the notice; and • Deliver or send by certified mail to NMED a copy of the notification and proof that the proposed transferee has received such notification. The Permittee shall continue to be responsible for any discharge from the Facility, until both ownership and possession of the Facility have been transferred to the transferee. [20.6.2.3111 NMAC]
41.	PERMIT FEES – The Permittee shall be aware that the payment of permit fees is due at the time of Discharge Permit approval. The Permittee may pay the permit fees in a single payment or they may pay the fee in equal installments on a yearly basis over the term of the Discharge Permit. The Permittee shall remit single payments to NMED no later than 30 days after the Discharge Permit issuance date. The Permittee shall remit initial installment payments to NMED no later than 30 days after the Discharge Permit issuance date; with subsequent installment payments remitted to NMED no later than the anniversary of the Discharge Permit issuance date.

#	Terms and Conditions
	Permit fees are associated with <u>issuance</u> of this Discharge Permit. No person shall construe anything in this Discharge Permit as relieving the Permittee of the obligation to pay all permit fees assessed by NMED. A Permittee that ceases discharging or does not commence discharging from the Facility during the term of the Discharge Permit shall pay all permit fees assessed by NMED. NMED shall suspend or terminate an approved Discharge Permit if the Permittee fails to remit an installment payment by its due date. [Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Facility Information

Facility Name San Juan Generating Station Solid Waste Disposal Pit
Discharge Permit Number DP-306
Legally Responsible Party Derek Bailey, Plant Manager
Public Service Company of New Mexico
2401 Aztec Road NE
(505) 320-2102

Treatment, Disposal and Site Information

Primary Waste Type Plant Generated Residual Waste
Facility Type Energy Utility – Power Plant

Discharge Locations

Type	Designation	Description & Comments
Impoundment	Solid Waste Pit	50,000 cubic yard capacity, synthetically lined (to be closed)

Ground Water Monitoring Locations

Type	Designation	Description & Comments
Monitoring Well	MW-SWDP1	Southeast corner of Solid Waste Pit (to be abandoned)
Monitoring Well	MW-SWDP2	Southeast corner of Solid Waste Pit (deeper well)

Depth-to-Ground Water 10 -40 feet
Total Dissolved Solids (TDS) 9,000 – 25,000 mg/L

Permit Information

Original Permit Issued December 20, 1983
Permit Renewal and Modification January 11, 1990
Permit Renewal July 31, 1995
Permit Renewal July 19, 2002
Permit Renewal June 5, 2013
Permit Amendment May 22, 2015
Permit Renewal January 17, 2018
Permit Renewal April 14, 2021

Current Action
Application Received
Public Notice Published
Permit Issued (Issuance Date)
Permitted Discharge Volume

Permit Renewal
December 12, 2024
Date
[issuance date]
no discharge



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

NMED Contact Information

Mailing Address

Ground Water Quality Bureau
P.O. Box 5469
Santa Fe, New Mexico 87502-5469

GWQB Telephone Number

(505) 827-2900

NMED Lead Staff

Marchell Schuman

Lead Staff Telephone Number

(505) 795-3275

Lead Staff Email

marchell.schuman@env.nm.gov or pps.general@env.nm.gov

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New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Renewal

Summary of Permit Conditions Requiring an Action

SJGS Solid Waste Pit, DP-306

Effective Date: date

A. ONE-TIME REQUIRED ACTIONS

#	Description of Required Action	Due Date
1.	Submit a written monitoring well location proposal for review and approval by NMED.	At least 60 days prior to monitoring well installation
2.	Install new monitoring well.	Within 120 days of the effective date of this Discharge Permit (by DATE)
3.	Sample groundwater in the new wells and analyze the samples for: • arsenic (As) • boron (B) • cadmium (Cd) • calcium (Ca) • chloride (Cl) • chromium (Cr) • cobalt (Co) • copper (Cu) • fluoride (F) • iron (Fe) • lead (Pb) • magnesium (Mg) • manganese (Mn) • molybdenum (Mo) • nickel (Ni) • potassium (K) • phenols • selenium (Se) • sodium (Na) • uranium (U) • carbonated (CO₃) • bicarbonate (HCO₃) • nitrate (NO₃) • sulfate (SO₄) • total dissolved solids • total radium • pH	Within 30 days following the installation of the monitoring well
4.	Submit well completion report.	Within 45 days of installation of the monitoring well, submit to NMED.
5.	Survey all wells approved by NMED for Discharge Permit monitoring purposes to a U.S. Geological Survey (USGS) or other permanent benchmark.	Within 60 days of monitoring well completion
6.	Submit the well data and groundwater elevation contour map (include DP-1327 wells)	Within 30 days of survey completion
7.	Plug and abandon SWDP-MW1	Within 120 days of the effective date of this Discharge Permit (by DATE)

Summary of Permit Conditions Requiring an Action

8.	Submit a final closure construction report and record drawings to NMED that bear the seal and signature of a licensed New Mexico professional engineer for the Facility.	Within 120 days of completion of closure.
9.	Submit a detailed REVISED cost estimate (Estimate)	Within 90 days of the effective date of this Discharge Permit (by DATE)
10.	Submit to NMED for approval its proposed financial assurance instrument(s)	Within 90 days from the date of NMED's approval of the revised closure cost estimate

B. RECURRING REQUIRED ACTIONS

#	Description of Required Action	Frequency	Reporting Due Dates
4.	Measure and record daily precipitation data	Daily	1 st of August
5.	Visually inspect and maintain fences around the Facility to restrict access by the general public and animals	Monthly	1 st of February, April, August, October
6.	Visually inspect signage around the Facility.	Monthly	1 st of February, April, August, October
7.	Conduct groundwater sampling in the following monitoring wells SWDP-MW2 and analyze the samples for: - arsenic (As) - boron (B) - cadmium (Cd) - calcium (Ca) - chloride (Cl) - chromium (Cr) - cobalt (Co) - copper (Cu) - fluoride (F) - iron (Fe) - lead (Pb) - magnesium (Mg) - manganese (Mn) - molybdenum (Mo) - nickel (Ni) - potassium (K) - phenols - selenium (Se) - sodium (Na) - uranium (U) - carbonated (CO₃) - bicarbonate (HCO₃) - nitrate (NO₃) - sulfate (SO₄) - total dissolved solids - total radium - pH Depth-to-most-shallow groundwater measurements, analytical results, including the laboratory QA/QC summary report, and a facility layout map showing the location and number of each well.	Quarterly Quarterly monitoring reports	1st of February, April, August, October 1st of February, April, August, October

Summary of Permit Conditions Requiring an Action

8.	Conduct cover and embankment integrity inspections	Quarterly or after a precipitation event one inch or greater	1 st of February, April, August, October
9.	Post-Closure Progress Reporting	Annual	1 st of August of each year

NOTE: This document is intended as a reminder only. See Discharge Permit for full requirement details.

Submit reports to:

NMED Ground Water Quality Bureau
P.O. Box 5469
Santa Fe, New Mexico 87502-5469

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**NEW MEXICO ENVIRONMENT DEPARTMENT
GROUND WATER QUALITY BUREAU
MONITORING WELL CONSTRUCTION AND ABANDONMENT GUIDELINES**

Purpose: These guidelines identify minimum construction and abandonment details for installation of water table monitoring wells under groundwater Discharge Permits issued by the NMED's Ground Water Quality Bureau (GWQB) and Abatement Plans approved by the GWQB. Proposed locations of monitoring wells required under Discharge Permits and Abatement Plans and requests to use alternate installation and/or construction methods for water table monitoring wells or other types of monitoring wells (e.g., deep monitoring wells for delineation of vertical extent of contaminants) must be submitted to the GWQB for approval prior to drilling and construction.

General Drilling Specifications:

1. All well drilling activities must be performed by an individual with a current and valid well driller license issued by the State of New Mexico in accordance with 19.27.4 NMAC. Use of drillers with environmental well drilling experience and expertise is highly recommended.
2. Drilling methods that allow for accurate determinations of water table locations must be employed. All drill bits, drill rods, and down-hole tools must be thoroughly cleaned immediately prior to the start of drilling. The borehole diameter must be drilled a minimum of 4 inches larger than the casing diameter to allow for the emplacement of sand and sealant.
3. After completion, the well should be allowed to stabilize for a minimum of 12 hours before development is initiated.
4. The well must be developed so that formation water flows freely through the screen and is not turbid, and all sediment and drilling disturbances are removed from the well.

Well Specifications (see attached monitoring well schematic):

5. Schedule 40 (or heavier) polyvinyl chloride (PVC) pipe, stainless steel pipe, carbon steel pipe, or pipe of an alternate appropriate material that has been approved for use by NMED must be used as casing. The casing must have an inside diameter not less than 2 inches. The casing material selected for use must be compatible with the anticipated chemistry of the groundwater and appropriate for the contaminants of interest at the facility. The casing material and thickness selected for use must have sufficient collapse strength to withstand the pressure exerted by grouts used as annular seals and thermal properties sufficient to withstand the heat generated by the hydration of cement-based grouts. Casing sections may be joined using welded, threaded, or mechanically locking joints; the method selected must provide sufficient joint strength for the specific well installation. The casing must extend from the top of the screen to at least one foot above ground surface. The top of the casing must be fitted with a removable cap, and the exposed casing must be protected by a locking steel well shroud. The shroud must be large enough in diameter to allow easy access for removal of the cap. Alternatively, monitoring wells may be completed below grade. In this case, the casing must extend from the top of the screen to 6 to 12 inches below the ground surface; the monitoring wells must be sealed with locking, expandable well plugs; a flush-mount, watertight well vault that is rated to withstand traffic loads must be emplaced around the wellhead; and the cover must be secured with at least one bolt. The vault cover must indicate that the wellhead of a monitoring well is contained within the vault.
6. A 20-foot section (maximum) of continuous-slot, machine slotted, or other manufactured PVC or stainless steel well screen or well screen of an alternate appropriate material that has been approved for use by NMED must be installed across the water table. Screens created by cutting slots into solid casing with saws or other tools must not be used. The screen material selected for use must be compatible with the anticipated chemistry of the ground water and appropriate for the contaminants of interest at the facility. Screen sections may be joined using welded, threaded, or mechanically

- locking joints; the method selected must provide sufficient joint strength for the specific well installation and must not introduce constituents that may reasonably be considered contaminants of interest at the facility. A cap must be attached to the bottom of the well screen; sumps (i.e., casing attached to the bottom of a well screen) should not be installed. The bottom of the screen must be installed no more than 15 feet below the water table; the top of the well screen must be positioned not less than 5 feet above the water table. The well screen slots must be appropriately sized for the formation materials and should be selected to retain 90 percent of the filter pack. A slot size of 0.010 inches is generally adequate for most installations.
7. Casing and well screen must be centered in the borehole by placing centralizers near the top and bottom of the well screen.
 8. A filter pack must be installed around the screen by filling the annular space from the bottom of the screen to 2 feet above the top of the screen with clean silica sand. The filter pack must be properly sized to prevent fine particles in the formation from entering the well; clean medium to coarse silica sand is generally adequate as filter pack material for 0.010-inch slotted well screen. For wells deeper than 30 feet, the sand must be emplaced by a tremmie pipe. The well should be surged or bailed to settle the filter pack and additional sand added, if necessary, before the bentonite seal is emplaced.
 9. A bentonite seal must be constructed immediately above the filter pack by emplacing bentonite chips or pellets (3/8-inch in size or smaller) in a manner that prevents bridging of the chips/pellets in the annular space. The bentonite seal must be 3 feet in thickness and hydrated with clean water. Adequate time should be allowed for expansion of the bentonite seal before installation of the annular space seal.
 10. The annular space above the bentonite seal must be sealed with cement grout or a bentonite-based sealing material acceptable to the State Engineer pursuant to 19.27.4 NMAC. A tremmie pipe must be used when placing sealing materials at depths greater than 20 feet below the ground surface. Annular space seals must extend from the top of the bentonite seal to the ground surface (for wells completed above grade) or to a level 3 to 6 inches below the top of casing (for wells completed below grade).
 11. For monitoring wells finished above grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the shroud and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the wellhead. The installation of steel posts around the well shroud and wellhead is recommended for monitoring wells finished above grade to protect the wellhead from damage by vehicles or equipment. For monitoring wells finished below grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the well vault and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the well vault.

Abandonment:

12. Approval for abandonment of monitoring wells used for ground water monitoring in accordance with Discharge Permit and Abatement Plan requirements must be obtained from NMED prior to abandonment.
13. Well abandonment must be accomplished by removing the well casing and placing neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer for wells that encounter water pursuant to 19.27.4 NMAC from the bottom of the borehole to the ground surface using a tremmie pipe. If the casing cannot be removed, neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer must be placed in the well using a tremmie pipe from the bottom of the well to the ground surface.
14. After abandonment, written notification describing the well abandonment must be submitted to the NMED. Written notification of well abandonment must consist of a copy of the well plugging record submitted to the State Engineer in accordance with 19.27.4 NMAC, or alternate documentation containing the information to be provided in a well plugging record required by the State Engineer as specified in 19.27.4 NMAC.

Deviation from Monitoring Well Construction and Abandonment Requirements: Requests to construct water table monitoring wells or other types of monitoring wells for groundwater monitoring under groundwater Discharge Permits or Abatement Plans in a manner that deviates from the specified requirements must be submitted in writing to the GWQB. Each request must state the rationale for the proposed deviation from these requirements and provide detailed evidence supporting the request. The GWQB will approve or deny requests to deviate from these requirements in writing.

