



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

December 5, 2023

Lloyd Wakefield, Utility Director
Raton Water Works
P.O. Box 99
Raton, New Mexico 87740

RE: Draft Discharge Permit, DP-1968, City of Raton WWTF Sludge Disposal Site

Dear Lloyd Wakefield:

The New Mexico Environment Department (NMED) hereby provides notice to Raton Water Works of the proposed approval of Ground Water Discharge Permit, DP-1968, (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 avery.young@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) 699-8564.

Sincerely,

Avery Young, Domestic Waste Team Lead

Encl: Draft Discharge Permit, DP-1968



NEW MEXICO
ENVIRONMENT DEPARTMENT
Ground Water Quality Bureau
1190 Saint Francis Drive / PO Box 5469
Santa Fe, NM 87502-5469
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Draft: December 5, 2023

GROUND WATER QUALITY BUREAU
DISCHARGE PERMIT
Issued under 20.6.2 NMAC

Facility Name: City of Raton Wastewater Treatment Facility (WWTF)
Sludge Disposal Site

Discharge Permit Number: DP-1968

Facility Location: 444 Hereford Ave
Raton, NM

County: Colfax

Permittee: City of Raton
Mailing Address: Lloyd Wakefield, Utility Director
P.O. Box 99
Raton, NM 87740

Facility Contact: Lloyd Wakefield
Telephone Number/Email: (575) 445-3861/lwakefield@cityofraton.com

Permitting Action: New

Permit Issuance Date: DATE
Permit Expiration Date: DATE

NMED Permit Contact: Avery Young, Domestic Waste Team Lead
Telephone Number/Email: (505) 699-8564/avery.young@env.nm.gov or
pps.general@env.nm.gov

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

Date

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- Discharge Permit Summary
- New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines, Revision 1.1, March 2011
- Surface Disposal Data Sheet (SDDS-Sludge - <https://www.env.nm.gov/forms/>)

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit (Discharge Permit or DP-1968) to Raton Water Works (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 the City of Raton WWTF Sludge Disposal Site (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 Permittee discharges domestic WWTF sludge at the Facility at a volume up to 100,000 gallons per day (gpd) to a 44.91-acre land surface disposal area.

Data collected from an on-site monitoring wells document groundwater contamination attributed to one or more sources at this Facility. The on-site monitoring well has exceedances of groundwater quality standards for nitrate according to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC. This Discharge Permit contains requirements, actions and/or contingencies intended to address the sources of documented groundwater contamination.

Discharge Permit Location Information:

| | |
|--------------------------|--|
| Physical Address | 444 Hereford Ave. |
| Nearest Town/City | Raton |
| Section, Township, Range | Section 6 (projected), Township 30N, Range 24E |
| County | Colfax |
| Depth to Groundwater | 20 |
| Pre-Discharge TDS | 2,500-10,000 mg/L |

The application (i.e., discharge plan) consists of the materials submitted by the Permittee dated August 22, 2023, and materials contained in the administrative record prior to issuance of this Discharge Permit. NMED previously included the discharge activities authorized by this Discharge

Permit in Discharge Permit 254. The Permittee shall manage this discharge in accordance with all conditions and requirements 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 NMED that proposed disposal methods, structural controls or operations and 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 |
|--------------|---|--------------------|-----------------------------------|
| CFR | Code of Federal Regulations | NMED | New Mexico Environment Department |
| CFU | colony forming unit | NMSA | New Mexico Statutes Annotated |
| Cl | chloride | NO ₃ -N | nitrate-nitrogen |
| EPA | United States Environmental Protection Agency | QA/QC | Quality Assurance/Quality Control |
| gpd | gallons per day | SDDS | Surface Disposal Data Sheet |
| LAA | land application area | TDS | total dissolved solids |
| LADS | Land Application Data Sheet(s) | TKN | total Kjeldahl nitrogen |
| lbs N/acre | pounds of nitrogen per acre | total nitrogen | = TKN + NO ₃ -N |
| mg/L | milligrams per liter | TS | total solids |
| mg/kg | milligram per kilogram | WQA | New Mexico Water Quality Act |
| mL | milliliters | 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 TO DISCHARGE

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 discharge up to 100,000 gpd of liquid, semi-solid, and solid domestic WWTF sludge to three surface disposal cells totaling 44.91 acres.

[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 |
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| 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] |

| # | Terms and Conditions |
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| 2. | <p>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.</p> <p>[20.6.2.3101 NMAC, 20.6.2.3103 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |

Operational Actions with Implementation Deadlines

| # | Terms and Conditions |
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| 3. | <p>Prior to discharging to the two new sludge disposal cells, the Permittee shall submit written notification to NMED stating the date the discharge is to commence.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection H of 20.6.2.3109 NMAC]</p> |
| 4. | <p>Prior to discharging domestic WWTF sludge to the two new surface disposal cells, the Permittee shall install 18 to 24-inch berms around each individual cell to prevent surface water run-on and run-off. Documentation of berm installation shall consist of a narrative statement describing the berm locations and date-stamped photographs. The Permittee shall submit the documentation to NMED in the next required periodic monitoring report.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |

Operational Actions – All Facility Types

| # | Terms and Conditions |
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| 5. | <p>To prevent surface water run-on and run-off at the Facility, the Permittee shall maintain earthen berms surrounding the perimeter of the Facility and in between disposal cells that are a minimum of 24 inches above natural grade.</p> <p>In place of a berm across the Facility entrance, the Permittee shall construct and maintain shallow (minimum depth of six inches) stormwater diversion trenches parallel to and on each side of the Facility entrance gate. The Permittee shall maintain all berms and trenches until termination of this Discharge Permit and the Permittee has completed all closure actions required by conditions.</p> <p>The Permittee shall inspect the berms on a regular basis and after any major rainfall event and repair as necessary.</p> <p>The Permittee shall keep a log of the inspection findings and repairs that includes a date</p> |

| # | Terms and Conditions |
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| | <p>of the inspection and the name of the person responsible for the inspection and shall make the log available to NMED upon request.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |
| 6. | <p>The Permittee shall maintain fences around the entire disposal Facility to restrict access by the general public and animals. A minimum of a three-strand barbed wire fence including a locked gate shall surround the Facility. The Permittee shall maintain the fences to serve the stated purpose throughout the term of this Discharge Permit.</p> <p>[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]</p> |
| 7. | <p>The Permittee shall maintain the following signs at the following locations:</p> <ul style="list-style-type: none"> • Signs posted at the Facility entrance and every 500 feet along the Facility boundary that state: "Notice: Waste Disposal Area - KEEP OUT" and "Aviso: Área de Disposición - NO ENTRAR". • A sign posted at the entrance gate with the name of the Facility's contact person, office phone number of the contact person, emergency contact phone number for the Facility, and physical location of the Facility including township, range, and section. • A sign at the boundary of each cell to identify the cell number and the waste type the Permittee is authorized to discharge in the cell. <p>The Permittee shall assure all signs are weatherproof and legible for the term of this Discharge Permit.</p> <p>[NMSA 1978, § 74-6-5.D, Subsections B and C of 20.6.2.3109 NMAC]</p> |
| 8. | <p>This Discharge Permit authorizes the Permittee to accept domestic WWTF sludge. The Permittee may not receive any other waste types at the Facility.</p> <p>The Permittee shall not combine different waste types. The Permittee shall dispose of waste in separate cells that receive only a single designated waste type.</p> <p>[Subsection C of 20.6.2.3109 NMAC]</p> |
| 9. | <p>The Permittee shall inspect the Facility weekly and collect any residual solid waste (trash) at the Facility. The Permittee shall dispose of the collected materials in a manner consistent with all local, state, and federal regulations.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections B and C of 20.6.2.3109 NMAC]</p> |
| 10. | <p>The Permittee shall not discharge liquid wastes during periods of precipitation or when</p> |

| # | Terms and Conditions |
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| | surface soils are frozen or saturated. The Permittee may store wastes on-site in tanker trucks during these periods. [Subsection C of 20.6.2.3109 NMAC] |

Operational Actions – Domestic Wastewater Treatment Facility Sludge

| # | Terms and Conditions |
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| 11. | <p>The Permittee shall maintain the Sludge Storage Impoundment liner to avoid conditions that could affect the liner or the structural integrity of the impoundment. Characterization of such conditions may include the following:</p> <ul style="list-style-type: none"> • erosion damage; • animal burrows or other damage; • the presence of vegetation including aquatic plants, weeds, woody shrubs or trees growing within five feet of the top inside edge of a sub-grade impoundment, within five feet of the toe of the outside berm of an above-grade impoundment, or within the impoundment itself; • the presence of large debris or large quantities of debris in the impoundment; • evidence of seepage; or • evidence of berm subsidence. <p>The Permittee shall routinely control vegetation growing around the impoundment by mechanical removal that is protective of the impoundment liner.</p> <p>The Permittee shall visually inspect the impoundment and surrounding berms on a monthly basis to ensure proper maintenance. In the event that an inspection reveals any evidence of damage that threatens the structural integrity of an impoundment berm or liner, or that may result in an unauthorized discharge, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.</p> <p>The Permittee shall create and maintain a log of all impoundment inspections which describes the date of the inspection, any findings and repairs and the name of the person responsible for the inspection. The Permittee shall make the log available to NMED upon request.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |
| 12. | <p>The Permittee shall preserve a minimum of two feet of freeboard, i.e., the distance between the highest calculated liquid level in the impoundment and the liquid level</p> |

| # | Terms and Conditions |
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| | <p>which would result in the release of stored liquid from the impoundment.</p> <p>In the event that the Permittee determines that it cannot preserve two feet of freeboard in the impoundment, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |
| 13. | <p>The Permittee shall apply liquid, semi-solid, and solid domestic WWTF sludge to three surface disposal cells totaling 44.91 acres. The Permittee shall achieve a manner of pathogen reduction requirements and vector attraction reduction (VAR) pursuant to 40 CFR Part 503. The Permittee shall select a VAR option from 40 CFR Part 503.33(b).</p> <p>The Permittee shall record on the manifest the date and time surface disposal occurred and the date, time, how they achieved pathogen reduction, and the VAR method utilized.</p> <p>[Subsection C of 20.6.2.3109 NMAC]</p> |

B. MONITORING AND REPORTING

| # | Terms and Conditions |
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| 14. | <p>The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |
| 15. | <p>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.</p> <p>[Subsection B of 20.6.2.3107 NMAC]</p> |
| 16. | <p>Semi-annual monitoring - The Permittee shall perform monitoring and other Permit required actions during the following periods and shall submit semi-annual reports to NMED by the following due dates:</p> <ul style="list-style-type: none"> • January 1st through June 30th – due by August 1st; and • July 1st through December 31st – due by February 1st. <p>[Subsection A of 20.6.2.3107 NMAC]</p> |

Groundwater Monitoring Conditions

| # | Terms and Conditions |
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| 17. | <p>The Permittee shall perform semi-annual groundwater sampling and analyze the samples for the following dissolved (except where noted) constituents:</p> <ul style="list-style-type: none"> • aluminum (CAS 7429-90-5) • arsenic (CAS 7440-38-2) • barium (CAS 7440-39-3) • boron (CAS 7440-42-8) • cadmium (CAS 7440-43-9) • chloride (CAS 16887-00-6) • chromium (CAS 7440-47-3) • cobalt (CAS 7440-48-4) • copper (CAS 7440-50-8) • cyanide CAS 57-12-5) • fluoride (CAS 16984-48-8) • iron (CAS 7439-89-6) • lead (CAS 7439-92-1) • manganese (CAS 7439-96-5) • molybdenum (CAS 7439-98-7) • total mercury (nonfiltered) (CAS 7439-97-6) • nitrate (CAS 14797-55-8) • pH (instantaneous) • polychlorinated biphenyls (PCBs, CAS 1336-36-3) • nickel (CAS 7440-02-0) • selenium (CAS 7782-49-2) • silver (CAS 7440-224) • sulfate (CAS 14808-79-8) • thallium (CAS 7440-28-0) • total dissolved solids • total Kjeldahl nitrogen • uranium (CAS 7440-61-1) • zinc (CAS 7440-66-6) <p>The Permittee shall sample the following groundwater monitoring wells:</p> <ol style="list-style-type: none"> a) MW-1, located hydrologically upgradient of the Facility and west of Cell 1 at 36.868175° Latitude and -104.431142° Longitude. b) MW-2, located hydrologically downgradient of Cell 1 and approximately 500 feet south of the Sludge Storage Impoundment at 36.868594° Latitude and -104.428512° Longitude. c) MW-3, located at an alternate location from MW-2 and hydrologically downgradient of Cell 1 and approximately 440 feet south of MW-2 at 36.867382° Latitude and -104.428556° Longitude. d) MW-4, located hydrologically downgradient of Cell 2 and on the east side of Cell 2 at 36.864959° Latitude and -104.425369° Longitude. e) MW-5, located hydrologically upgradient of Cell 2 and west of Cell 2 at 36.864863° Latitude and -104.428446° Longitude. f) MW-6, located hydrologically upgradient of Cell 3 and west of Cell 3 at 36.861687° Latitude and -104.429411° Longitude. g) MW-7, located hydrologically downgradient of Cell 3 and east of Cell 3 at 36.862666° Latitude and -104.423875° Longitude. |

| # | Terms and Conditions |
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| | <p>The Permittee shall perform groundwater sample collection, preservation, transport, and analysis according to the following procedures.</p> <ol style="list-style-type: none"> 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. <p>The Permittee shall submit the depth-to-most-shallow groundwater measurements and the laboratory analytical data results including the 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 semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |
| 18. | <p>The Permittee shall develop a groundwater elevation contour map, i.e., potentiometric surface map, on a semi-annual basis using the top of casing elevation data from the monitoring well survey and semi-annual the most recent depth-to-most-shallow groundwater measurements, referenced to mean sea level, obtained during the groundwater sampling required by this Discharge Permit.</p> <p>The groundwater elevation contour map shall depict the groundwater flow direction based on the groundwater elevation contours. The Permittee shall estimate groundwater elevations between monitoring well locations using common interpolation methods. The Permittee shall use a contour interval appropriate to the data but shall not be greater than two feet. Groundwater elevation contour maps shall use arrows to depict the groundwater flow direction based on the orientation of the groundwater elevation contours and shall locate and identify each monitoring well and contaminant source.</p> <p>The Permittee shall submit to NMED a groundwater elevation contour map in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |
| 19. | <p>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 provide at least a 60-day notice to the Permittee by certified mail. 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.</p> |

| # | Terms and Conditions |
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| | <p>Should the Permittee decide to install a pump 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(s) prior to pump placement.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC]</p> |

Monitoring and Reporting - Domestic Wastewater Treatment Facility Sludge

| # | Terms and Conditions |
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| 20. | <p>The Permittee shall on a monthly basis measure the volume of sludge discharged from the treatment system to the Sludge Storage Impoundment during the period.</p> <p>To determine the discharge volume, the Permittee shall obtain readings from a totalizing flow meter located on the transfer line from the treatment system to the storage impoundment on a monthly basis and calculate the monthly and average daily discharge volume.</p> <p>The Permittee shall submit the monthly meter readings, calculated monthly discharge volumes, and average daily discharge volumes to NMED in the quarterly monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]</p> |
| 21. | <p>The Permittee shall analyze domestic wastewater treatment facility sludge accepted at the Facility in the following manner:</p> <ul style="list-style-type: none"> • Record the volume in either gallons or metric tons of domestic wastewater treatment facility sludge discharged to each surface disposal cell during the reporting period. • Sample each domestic wastewater sludge type (solid, semi-solid, and liquid) transported to the surface disposal facility on a semi-annual basis and analyze the sample(s) for percent total solids (%TS). • Sample each domestic wastewater sludge type (solid, semi-solid, and liquid) transported to the surface disposal Facility on a semi-annual basis and analyze the samples for TKN and NO₃-N. The Permittee shall report the analytical results as mg/kg for TKN and NO₃-N (dry weight basis) for solid sludge and as mg/L for TKN and NO₃-N for liquid and semi-solid sludge. |

| # | Terms and Conditions |
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| | <p>The Permittee shall ensure the samples are properly prepared, preserved, transported, and analyzed in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit records of the volume of the sludge discharged, percent total solids, and analytical results, including the laboratory QA/QC summary, to NMED in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC and Subsection H of 20.6.2.3109]</p> |
| 22. | <p>The Permittee shall complete a Surface Disposal Data Sheet for Sludge (SDDS-Sludge and SDDS-Liquid Sludge, attached) on a monthly basis to document the amount of nitrogen in domestic wastewater treatment facility sludge discharged to the surface disposal cell(s). The Permittee shall complete a SDDS for each cell designation and for each sludge type (solid, semi-solid, and liquid) disposed of in each cell. The SDDS shall reflect the most recent nitrogen analysis results and the average percent total solids for each sludge type for each cell. The Permittee shall not adjust the nitrogen content to account for volatilization or mineralization processes.</p> <p>The Permittee shall submit the SDDSs, or a statement that no surface disposal occurred within the cells, to NMED in the semi-annual monitoring reports.</p> <p>[Subsection A of 20.6.2.3107 NMAC and Subsection H of 20.6.2.3109]</p> |

C. CONTINGENCY PLAN

| # | Terms and Conditions |
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| 23. | <p>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 analytical results to confirm those results.</p> <p>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.</p> <p>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.</p> |

| # | Terms and Conditions |
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| | <p>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.</p> <p>[20.6.2.3103 NMAC, Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]</p> |
| 24. | <p>In the event that information available to NMED indicates that a well is not constructed in a manner consistent with the attachment titled (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.</p> <p>The Permittee shall survey the replacement monitoring well(s) within 30 days following well completion.</p> <p>The Permittee shall install replacement wells at locations approved by NMED prior to installation and shall complete replacement wells in accordance with the attached Monitoring Well Guidance. The Permittee shall submit well construction and lithologic logs, survey data and a groundwater elevation contour map to NMED within 60 days following well completion.</p> <p>The Permittee shall properly plug and abandon monitoring well(s) requiring replacement upon completion of the replacement monitoring well(s). 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(s) completion.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |
| 25. | <p>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.</p> |

| # | Terms and Conditions |
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| | <p>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.</p> <p>The Permittee shall install replacement wells at locations approved by NMED prior to installation and shall complete replacement wells 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.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |
| 26. | <p>In the event that an inspection reveals significant damage has occurred or is likely to affect the structural integrity of an impoundment or liner or their ability to contain contaminants, the Permittee shall propose the repair or replacement by submitting a CAP to NMED for approval. The Permittee shall ensure the CAP is submitted to NMED within 30 days after discovery of the damage or following notification from NMED that significant damage is evident. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall initiate implementation of the CAP following approval by NMED.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]</p> |
| 27. | <p>In the event that an impoundment cannot preserve a minimum of two feet of freeboard, the Permittee shall take actions to restore the required freeboard as authorized by this Discharge Permit and all applicable local, state, and federal regulations.</p> <p>In the event that two feet of freeboard cannot be restored within a period of 72 hours following discovery, the Permittee shall propose actions to restore two feet of freeboard by submitting a short-term CAP to NMED for approval. Examples of short-term corrective actions include the pumping and hauling of excess wastewater from the impoundment or reducing the volume of wastewater discharged to the impoundment. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall submit the CAP within 15 days following the date the Permittee or the NMED discover the exceedance. The Permittee shall implement the CAP following NMED approval.</p> <p>In the event that the short-term corrective actions fail to restore two feet of freeboard, the Permittee shall submit to NMED a proposal for permanent corrective actions in a</p> |

| # | Terms and Conditions |
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| | <p>long-term CAP. The Permittee shall submit the long-term CAP within 90 days following failure of the short-term CAP. Examples corrective actions include the installation of an additional storage impoundment or a significant and permanent reduction in the volume of wastewater discharged to the impoundment. The Permittee shall ensure the long-term CAP includes a schedule for completion of corrective actions. The Permittee shall implement the CAP following NMED approval.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |
| 28. | <p>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.</p> <p>Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.</p> <ol style="list-style-type: none"> a) 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. b) The name and address of the Facility. 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. <p>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.</p> <p>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.</p> <ol style="list-style-type: none"> 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. |

| # | Terms and Conditions |
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| | <p>c) A schedule for completion of proposed actions.</p> <p>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.</p> <p>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.</p> <p>[20.6.2.1203 NMAC]</p> |
| 29. | <p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]</p> |

D. CLOSURE PLAN

Permanent Facility Closure Conditions

| # | Terms and Conditions |
|-----|--|
| 30. | <p>The Permittee shall complete the following closure measures in the event they are proposing to permanently close the sludge waste disposal portion of the Facility or a surface disposal cell:</p> <ul style="list-style-type: none"> a) Notify NMED of any waste types the Permittee will no longer be accepting at the Facility or the closure of a surface disposal cell. b) Within 60 days of ceasing to discharge to a disposal cell, backfill the disposal cell(s) with clean fill (as necessary) and re-grade to allow for positive storm water drainage. c) Re-vegetate the cells and disturbed areas at the Facility by establishing a vegetative cover equal to 70% of the native perennial vegetative cover consisting of at least three native plant species including at least one grass, but not including noxious weeds. The Permittee shall maintain the vegetative cover through two consecutive growing seasons. |

| # | Terms and Conditions |
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| | <p>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. This period is referred to as “post-closure.”</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |

E. GENERAL TERMS AND CONDITIONS

| # | Terms and Conditions |
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| 31. | <p>RECORD KEEPING - The Permittee shall maintain a written record of the following:</p> <ul style="list-style-type: none"> • 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; • 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; |

| # | Terms and Conditions |
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| | <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> a. the dates, location and times of sampling or field measurements; b. the name and job title of the individuals who performed each sample collection or field measurement; c. the sample analysis date of each sample; d. the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis; e. the analytical technique or method used to analyze each sample or collect each field measurement; f. the results of each analysis or field measurement, including raw data; g. the results of any split, spiked, duplicate or repeat sample; and h. a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used. <p>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.</p> <p>[Subsections A and D of 20.6.2.3107 NMAC]</p> |
| 32. | <p>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 paper and electronic documents shall be submitted to the NMED Permit Contact identified on the Permit cover page.</p> <p>[Subsection A of 20.6.2.3107 NMAC]</p> |
| 33. | <p>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.</p> |

| # | Terms and Conditions |
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| | <p>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.</p> <p>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.</p> <p>[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]</p> |
| 34. | <p>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.</p> <p>[Subsection D of 20.6.2.3107 NMAC]</p> |
| 35. | <p>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.</p> <p>[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]</p> |
| 36. | <p>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.</p> <p>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.</p> <p>[Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]</p> |

| # | Terms and Conditions |
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| 37. | <p>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.</p> <p>[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]</p> |
| 38. | <p>CRIMINAL PENALTIES – No person shall:</p> <ul style="list-style-type: none"> • 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. <p>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 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.</p> |

| # | Terms and Conditions |
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| | [20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F] |
| 39. | <p>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.</p> <p>[NMSA 1978, § 74-6-5.L]</p> |
| 40. | <p>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.</p> <p>[20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.O]</p> |
| 41. | <p>TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall:</p> <ul style="list-style-type: none"> • 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. <p>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.</p> <p>[20.6.2.3111 NMAC]</p> |
| 42. | <p>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.</p> <p>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</p> |

| # | Terms and Conditions |
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| | <p>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.</p> <p>[Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]</p> |

draft



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Facility Information

| | |
|----------------------------------|--|
| Facility Name | City of Raton WWTF Sludge Disposal Site |
| Discharge Permit Number | DP-1968 |
| Legally Responsible Party | Lloyd Wakefield, Utility Director Raton Water Works P.O. Box 99 Raton, New Mexico 87740 (575) 445-3861 |

Treatment, Disposal and Site Information

| | |
|---------------------------|-----------------------|
| Primary Waste Type | Domestic WWTF Sludge |
| Facility Type | Surface Disposal Site |

Discharge Locations

| Type | Designation | Description & Comments |
|-----------------------|----------------------------|--|
| Impoundment | Sludge Storage Impoundment | A 1,000,000-gallon, concrete-lined, aerated impoundment located at the WWTF after the aerobic digester basin |
| Surface Disposal Cell | Cell 1 | 20-acre disposal cell for domestic WWTF sludge |
| Surface Disposal Cell | Cell 2 | 9.84-acre disposal cell for domestic WWTF sludge |
| Surface Disposal Cell | Cell 3 | 15.07-acre disposal cell for domestic WWTF sludge |

Flow Metering Locations

| Type | Designation | Description & Comments |
|-----------------------|----------------------------|--|
| Totalizing Flow Meter | Sludge Storage Impoundment | Totalizing Flow Meter on the transfer line between the wastewater treatment system and the impoundment |

Ground Water Monitoring Locations

| Type | Designation | Description & Comments |
|-----------------|-------------|---|
| Monitoring Well | MW-1 | Located hydrologically upgradient of the Facility and west of Cell 1 at 36.868175° Latitude and -104.431142° Longitude |
| Monitoring Well | MW-2 | Located hydrologically downgradient of Cell 1 and approximately 500 feet south of the Sludge Storage Impoundment at 36.868594° Latitude and -104.428512° Longitude. |
| Monitoring Well | MW-3 | Located at an alternate location from MW-2 and hydrologically downgradient of Cell 1 and approximately 440 feet south of MW-2 at 36.867382° Latitude and -104.428556° Longitude |



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

| | | |
|-----------------|------|--|
| Monitoring Well | MW-4 | Located hydrologically downgradient of Cell 2 and on the east side of Cell 2 at 36.864959° Latitude and -104.425369° Longitude |
| Monitoring Well | MW-5 | Located hydrologically upgradient of Cell 2 and west of Cell 2 at 36.864863° Latitude and -104.428446° Longitude |
| Monitoring Well | MW-6 | Located hydrologically upgradient of Cell 3 and west of Cell 3 at 36.861687° Latitude and -104.429411° Longitude |
| Monitoring Well | MW-7 | Located hydrologically downgradient of Cell 3 and east of Cell 3 at 36.862666° Latitude and -104.423875° Longitude |

Depth-to-Ground Water 20 feet
Total Dissolved Solids (TDS) 2,500-10,000 mg/L

Permit Information

Current Action

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

Original Permit Issuance

August 22, 2023
[not yet published]
[issuance date]
100,000 gallons per day

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

Avery Young

Lead Staff Telephone Number

(505) 699-8564

Lead Staff Email

avery.young@env.nm.gov or pps.general@env.nm.gov

**Surface Disposal Data Sheet (SDDS)
Sludge**

**New Mexico Environment Department
Ground Water Quality Bureau**



DATE: DP#: MONITORING REPORT DUE DATE:

FACILITY NAME: REPORTING PERIOD (i.e., from ___ to ___):

SLUDGE TYPE (i): DISCHARGE CELL DESIGNATION (i): # ACRES IN CELL:

| A | B | C | D | E | F | G | H |
|--|----------------|-----------------------------|---|---|---|--|-----------------------------------|
| MONTH & YEAR OF DISCHARGE (ii) | PERCENT SOLIDS | VOLUME OF SLUDGE DISCHARGED | DRY WEIGHT OF SLUDGE DISCHARGED | SLUDGE SAMPLE: TOTAL NITROGEN CONCENTRATION (iii) | TOTAL NITROGEN (KG) | TOTAL NITROGEN (Pounds) | NITROGEN LOADING |
| | % | GALLONS | (B X 10,000 X C / 1,000,000 X 8.34 / 2,200) metric tons dry weight | (TKN + NO3-N) mg/kg | ((D x E) ÷ 1,000) kg N | (F x 2.2) lbs N | (G ÷ # acres) lbs N/acre |
| <i>example assuming a 3-acre cell: MM - YY</i> | 5.8 | 120,000 gallons | 26.4 metric tons | 2063 mg/kg TKN + 687 mg/kg NO3-N = 2750 mg/kg N | (26.4 metric tons x 2750 mg/kg) ÷ 1,000 = 72.6 kg N | (72.6 kg N/metric ton) x 2.2 = 160 lbs N | 160 lbs N ÷ 3 acres = 53 lbs N/ac |
| | | | 0.0 | | 0.0 | 0 | |
| | | | 0.0 | | 0.0 | 0 | |
| | | | 0.0 | | 0.0 | 0 | |
| | | | 0.0 | | 0.0 | 0 | |
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| | | | 0.0 | | 0.0 | 0 | |
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| | | | 0.0 | | 0.0 | 0 | |
| | | | 0.0 | | 0.0 | 0 | |
| | | | 0.0 | | 0.0 | 0 | |
| | | | 0.0 | | 0.0 | 0 | |
| TOTALS | | | | | | 0 | |

(i) One SDDS form should be submitted for *each* cell designation and for each sludge type (liquid, semi-solid, or solid) disposed of in each cell.
(ii) Each form must reflect the most recent 12 months of sludge discharge. In the event discharge did not occur, please report MM-YY and "no discharge" in Column C.
(iii) This information should be obtained from the *most recent* laboratory analysis. If quarterly sampling is required, record the same data for the three months of that monitoring quarter.

**Surface Disposal Data Sheet (SDDS)
Sludge**

**New Mexico Environment Department
Ground Water Quality Bureau**



DATE: DP#: MONITORING REPORT DUE DATE:

FACILITY NAME: REPORTING PERIOD (i.e., from ___ to ___):

SLUDGE TYPE (i): DISCHARGE CELL DESIGNATION (i): # ACRES IN CELL:

| A | B | C | D | E | F | |
|--|-----------------------------|---|--|---|--|-------|
| MONTH & YEAR OF DISCHARGE (ii) | VOLUME OF SLUDGE DISCHARGED | SLUDGE DISCHARGED | SLUDGE SAMPLE: TOTAL NITROGEN CONCENTRATION (iii) | TOTAL NITROGEN DISCHARGED | NITROGEN LOADING | NOTES |
| | GALLONS | (B ÷ 1,000,000) million gallons (MG) | (TKN + NO ₃ -N) mg/L | (C x D x 8.34 lb/gal) lbs N | (E ÷ # acres) lbs N/acre | |
| <i>example assuming a 3-acre cell: MM - YY</i> | <i>120,000 gallons</i> | <i>30,000 gal ÷ 1,000,000 = 0.03 MG</i> | <i>263 mg/L TKN + 600 mg/L NO₃-N = 863 mg/L N</i> | <i>600 mg/L x 0.03 MG x 8.34 lb/gal = 150 lbs N</i> | <i>160 lbs N ÷ 3 acres = 53 lbs N/ac</i> | |
| | | 0.00 | | 0 | #DIV/0! | |
| | | 0.00 | | 0 | #DIV/0! | |
| | | 0.00 | | 0 | #DIV/0! | |
| | | 0.00 | | 0 | #DIV/0! | |
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| | | 0.00 | | 0 | #DIV/0! | |
| TOTALS | | | | 0 | #DIV/0! | |

(i) One SDDS form should be submitted for *each* cell designation and for each sludge type (liquid, semi-solid, or solid) disposed of in each cell.
 (ii) Each form must reflect the most recent 12 months of sludge discharge. In the event discharge did not occur, please report MM-YY and "no discharge" in Column C.
 (iii) This information should be obtained from the *most recent* laboratory analysis. If quarterly sampling is required, record the same data for the three months of that monitoring quarter.