



## ELECTRONIC DELIVERY

August 3, 2023

Charles Dixon  
350 Harroun Rd.  
Malaga, New Mexico 82263

**RE: Draft Discharge Permit Renewal, DP-1754, Southwest Salt Malaga Facility**

Dear Charles Dixon:

Notice is hereby given pursuant to Subsection H of 20.6.2.3108 NMAC that the Ground Water Discharge Permit Renewal of the existing Discharge Permit 1754 (DP-1754) for the Southwest Salt Malaga Facility has been proposed for approval (copy enclosed). The New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) will publish notice of the availability of the draft Discharge Permit Renewal in the near future and will forward a copy of the notice to you.

Prior to making a final ruling on the proposed DP-1754 Discharge Permit Renewal, NMED will allow 30 days from the date the public notice is published, during which time written comments can be submitted or a public hearing requested. Comments and/or hearing requests may be submitted by any interested person, including the DP-1754 Discharge Permit Renewal applicant. Written comments or hearing requests must be submitted to the GWQB at the email or physical address below and shall set forth the reasons why a hearing is requested. A hearing will be held only if hearing requests are received from the public or the DP-1754 Discharge Permit Renewal applicant during the 30-day comment period and NMED determines there is substantial public interest regarding the proposed DP-1754 Discharge Permit Renewal. Hearings are presided over by the NMED Secretary, or a hearing officer appointed by the Secretary.

Please review the enclosed draft DP-1754 Discharge Permit Renewal carefully for accuracy and completeness, and to make sure you understand what it requires. Please be aware that the proposed DP-1754 Discharge Permit Renewal may contain conditions that require the permittee to implement operational, monitoring, or closure actions by a specified deadline.

The Water Quality Control Commission (WQCC) Regulations, 20.6.2 NMAC, are available online at <https://www.env.nm.gov/regulatory-resources>.

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

Telephone (505) 827-2900 | [www.env.nm.gov/gwqb/](http://www.env.nm.gov/gwqb/)

Charles Dixon, Southwest Salt Malaga Facility  
DP-1754 Draft Discharge Permit Renewal  
August 3, 2023

Any comments relating to this draft DP-1754 Discharge Permit Renewal can be sent to me at the address in the footer of this letter or by email to [Joseph.fox@env.nm.gov](mailto:Joseph.fox@env.nm.gov). If written comments or a written request for a hearing are not received during the public comment period, the draft DP-1754 Discharge Permit Renewal will become final. Thank you for your cooperation during the review process.

Sincerely,

**Joseph  
Fox**  Digitally signed  
by Joseph Fox  
Date: 2023.08.03  
14:12:53 -06'00'

Joseph Fox, Program Manager  
Mining Environmental Compliance Section  
Ground Water Quality Bureau  
New Mexico Environment Department



MICHELLE LUJAN GRISHAM  
GOVERNOR

JAMES C. KENNEY  
CABINET SECRETARY

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

**Mine Facility Name:** Southwest Salt Malaga Facility

**GWQB Discharge Permit No.:** DP-1754

**Permittee Name/Responsible Party:** Southwest Salt Company, LLC  
**Mailing Address:** PO Box 445, 4 S Silver St.  
Paola, KS 66071

**Mine Facility Contact:** Charles Dixon; (913) 294-2979  
**Mine Facility Location:** 350 Harroun Rd.  
Malaga, NM 82263

**County:** Eddy County

**Permitting Action:** Renewal  
**Effective Date:** [DATE]  
**Expiration Date:** [DATE]  
**Draft Date:** August 18, 2023

**NMED Permit Contact** Jessica Hubbling; (505) 487-3720  
**E-mail Address** Jessica.Hubbling@env.nm.gov

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**Justin Ball, Chief**  
**Ground Water Quality Bureau**

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**Date**

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**ATTACHMENTS**

1. New Mexico Environment Department, *Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines*, Revision 1.1, March 2011 (Monitoring Well Guidance)

## Part A GENERAL INFORMATION

### A100 Introduction

- A. The New Mexico Environment Department (NMED) issues this renewal of Ground Water Discharge Permit, DP-1754 (Discharge Permit or DP-1754) to Southwest Salt Company, LLC (permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978 §§ 74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Regulations, 20.6.2 NMAC (Ground and Surface Water Protection). NMED is issuing this Discharge Permit to control the discharge of water contaminants from the Southwest Salt Malaga Facility (Site) for the protection of 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.
- B. Pursuant to this Discharge Permit, the permittee is authorized to discharge a maximum of 576,000 gallons per day (400 gallons per minute) of brine to a series of six lined Solar Evaporation Ponds. The brine exceeds water quality standards of Subsection B of 20.6.2.3103 NMAC for chloride, sulfate, and total dissolved solids (TDS). The concentration of the brine is estimated at approximately 186,000 mg/L chloride, 14,400 mg/L sulfate, and 324,000 mg/L TDS. All impacted stormwater is captured on site. Domestic wastewater from the Site is managed using a septic tank/leach field system as approved by NMED Liquid Waste Permit CA140011. These discharges may move directly or indirectly into groundwater of the State of New Mexico and thereby into segments of the Pecos River which are gaining because of groundwater inflow within the meaning of Subsection A of 20.6.2.3101 NMAC. These discharges may contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC in compliance with the terms and conditions of this Discharge Permit.
- C. The permittee is authorized to discharge water contaminants pursuant to this Discharge Permit which requires compliance with 20.6.2 NMAC and is enforceable by NMED.

### A101 Applicable Regulations

- A. The discharges from this Site authorized in Section B104 are subject to 20.6.2.3000 NMAC through 20.6.2.3114 NMAC.
- B. The discharges associated with this Discharge Permit are not subject to any of the exemptions of 20.6.2.3105 NMAC.
- C. Groundwater quality as monitored in on-site monitoring wells required by Condition C103A of this Discharge Permit, and surface water quality as monitored by surface water sampling required by Condition C103B of this Discharge Permit, are subject to 20.6.2.3101 NMAC and 20.6.2.3103 NMAC.

### **A102 Permit Duration**

- A. Pursuant to the WQA 74-6-5(I) and Subsection H of 20.6.2.3109 NMAC, the term of this Discharge Permit is **five (5) years** from the effective date.
- B. Pursuant to Subsection G of 20.6.2.3106 NMAC, if the permittee submits an application for renewal at least 120 days before the Discharge Permit expires, and the permittee is not in violation of the Discharge Permit on the date of its expiration, then the existing Discharge Permit for the same activity shall not expire until the application for renewal has been approved or disapproved.

### **A103 Terms of Permit Issuance**

- A. Permit Fees - The permittee shall remit a permit fee payment equal to the applicable permit fee listed in Table 1 of 20.6.2.3114 NMAC at the time of Discharge Permit approval. [Subsections A and F of 20.6.2.3114 NMAC]
- B. Transfer of Ownership - Prior to the transfer of any ownership, control, or possession of this permitted Site or any portion thereof, the permittee shall notify the proposed transferee in writing of the existence of this Discharge Permit and include a copy of this Discharge Permit with the notice. The permittee shall deliver or send by certified mail to NMED a copy of the notification and proof that such notification has been received by the proposed transferee. [20.6.2.3111 NMAC]
- C. Permit Renewal - To renew this Discharge Permit and meet the extension provisions found in Subsection G of 20.6.2.3106 NMAC, the permittee shall submit an application and associated fees for renewal at least 120 days prior to the expiration date of this Discharge Permit.

## **Part B FACILITY SPECIFIC INFORMATION**

### **B100 History and Facility Description**

- A. The Southwest Salt Malaga Facility is a solar evaporation salt mine that commenced operations in 2012. The Site pumps brine from the Brine Well (OSE Permit number C-02713 POD1) and distributes it into a series of six, synthetically lined, open-air Solar Evaporation Ponds for the purpose of generating solid salt through evaporation. The Brine Well is located near the Pecos River at Malaga Bend and is completed in an aquifer that produces a sodium-chloride brine from the top of the Salado Formation, approximately 225 feet below the ground surface. The Brine Well was originally drilled in 2003 by Brine Partners LLC; currently ownership is shared between Red Bluff Power Control and Southwest Salt Company LLC.



- B. Brine is pumped from the Brine Well using a 70 Horsepower, 5 stage pump and Variable Frequency Drive controller. The brine is then gravity-fed through approximately 23,000 feet (4.36 miles) of high-density polyethylene (HDPE) pipeline to the Solar Evaporation Ponds. This Brine Pipeline is 6" to 8" diameter and is fuse welded at intervals located approximately every 1,300-feet apart. The Brine Pipeline is connected to the Old Dogtown Bridge where it crosses above the Pecos River.
- C. The brine is delivered via the Brine Pipeline to six synthetically lined Solar Evaporation Ponds, each approximately 20-acres in area. The ponds are lined with a single 40 mil HDPE liner. The open-air ponds facilitate evaporation of the brine and precipitation of halite (NaCl) salt. Salt harvesting is performed in a selected solar evaporation pond by pumping residual liquids to an adjacent pond and allowing the remaining salt brine to further precipitate and dry. A minimum thickness of one foot of salt is maintained within the ponds to protect the integrity of the synthetic liner. Heavy equipment is used to push the precipitated salt into stacks within the ponds for additional drying. Heavy equipment access to the Solar Evaporation Ponds is provided by interior and exterior ramps, constructed of salt, and installed on one corner of each pond.
- D. Harvested salt is transported to the adjacent processing plant where it is stockpiled on the Salt Stockpile Pad. No other stockpiling of salt is permitted outside of the lined ponds or the boundary of the Salt Stockpile Pad.
- E. Salt located on the Salt Stockpile Pad is rinsed, dried, sorted by grain size, and packaged for distribution within the processing plant. The finest-grained salt is not usable as a commercial product. This fine salt is transported back to the ponds and used to help maintain the protective salt layer thickness or redissolved and reprecipitated after the pond is filled with new brine.
- F. The Rinse Water Well (OSE permit number C-02713 POD2) is located near the Processing Plant. Water from this well is distributed throughout the Site via a network of 4-inch HDPE pipelines. Water from this well is used to rinse the freshly harvested salt, wash equipment, and for pond and Site maintenance.
- G. All rinse water runoff and impacted stormwater gravity flows via stormwater conveyances into Pond 5A (run off collection pond). Accumulated solids in Pond 5A will be removed as needed and transported off site for disposal at an approved facility. All non-impacted stormwater that enters the site is contained in local depressions to ultimately evaporate or infiltrate into the subsurface. The Site is located in a topographical depression with no surface outlet for non-impacted stormwater.

### **B101 Permitting History**

- A. The Discharge Plan for the renewal of DP-1754 includes the NOI and Discharge Permit Application dated May 18, 2022, the subsequent Request for Additional Information (RFAI) letter from NMED and response from Southwest Salt dated January 24 and March 8, 2023, respectively, the existing Closure Plan for the Southwest Salt Malaga Facility dated November 2016, and materials contained in the administrative record prior to issuance of this Discharge Permit. In addition, the Discharge Plan includes applicable information and materials submitted as part of the original Discharge Plan approved on May 6, 2011, and renewed and modified on January 30, 2017. Southwest Salt Company, LLC was granted temporary permission to discharge for 120 days on June 27, 2022, October 17, 2022, February 21, 2023, and June 13, 2023. The Closure Plan and Financial Assurance associated with DP-1754 will be updated in accordance with Conditions C105 and C106 of this Discharge Permit.

### **B102 Facility Location, Groundwater, and Process Water Characteristics**

- A. The mine units regulated pursuant to DP-1754 are located approximately 14 miles southeast of Carlsbad in Eddy County, New Mexico. The Solar Evaporation Ponds, Rinse Water Well, and associated process and packaging facilities are located in Sections 5 and 6, T24S, R29E. The Brine Pipeline is located in Sections 6, 7, 8 and 17, T24S, R29E. The Brine Well (C-02713 POD1) is located in Section 16, T24S, R29E, SW¼NW¼.
- B. Groundwater beneath the site is monitored in accordance with DP-1754 in monitoring wells SWS-1, SWS-2, and LG-27. Monitoring wells SWS-1 and SWS-2 are located down-gradient and proximal to the Solar Evaporation Ponds. Monitoring well LG-27, lies off-site and up-gradient from the Southwest Salt Malaga Facility. The depth to groundwater beneath the mine units regulated pursuant to DP-1754, as determined from groundwater monitoring wells SWS-1, SWS-2, and LG-27, ranges from approximately 26 to 39 feet beneath the ground surface. The TDS concentration in monitoring wells SWS-1 and SWS-2 ranges from 24,800 to 37,800 mg/L. The TDS in well LG-27 ranges from to 11,900 to 13,600 mg/L.
- C. The brine discharged from the Brine Well (C-02713 POD1) exceeds the water quality standards of Section 20.6.2.3103 NMAC for TDS, sulfate, and chloride. Rinse water and impacted stormwater discharges regulated pursuant to DP-1754 may also contain TDS, sulfate, and chloride in concentrations that exceed water quality standards of Section 20.6.2.3103 NMAC.

### **B103 Authorized Mine Units**

This Discharge Permit contains requirements associated with the following mine units as identified in the NOI, Discharge Permit Renewal Application, and supporting administrative record. These existing mine units, as regulated pursuant to DP-1754, are described in Section B100 of this Discharge Permit and displayed on Figures 1 and 2. No new mine units or construction is approved in this Discharge Permit renewal.

- A. Brine Well (C-02713 POD1),
- B. HDPE Brine Pipeline from the Brine Well to the Site and interconnecting pipelines between solar ponds,
- C. Solar Evaporation Ponds 1 through 6,
- D. Salt Stockpile Pad,
- E. Salt Processing Plant,
- F. Rinse Water Well (C-02713 POD2), and
- G. Runoff Collection Pond (Pond 5A).

### **B104 Authorized Discharges**

The permittee is authorized to discharge water contaminants from the following mine units in accordance with all applicable system design and operational constraints as described in this Discharge Permit and the Discharge Plan. [20.6.2.3109 NMAC]

- A. The permittee is authorized to discharge up to 576,000 gallons per day to six synthetically lined Solar Evaporation Ponds for the purpose of generating solid salt through evaporation. The sources of discharge include the Brine Well (C-02713 POD1), the Rinse Water Well (C-02713 POD2), or any combination thereof.
- B. The permittee is authorized to discharge impacted stormwater from the Southwest Salt Malaga Facility into the Runoff Collection Pond (Pond 5A).
- C. This Discharge Permit authorizes only those discharges at the Southwest Salt Malaga Facility specified herein. Any unauthorized discharges such as spills or leaks must be reported to NMED and corrective action taken as required by 20.6.2.1203 NMAC, and any additional requirements listed in this Discharge Permit.

## **Part C FACILITY SPECIFIC REQUIREMENTS**

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

### **C100 Evaporation Ponds, Wells, and Brine Pipeline**

- A. The permittee shall operate the Solar Evaporation Ponds, Brine Well, Rinse Water Well, well pumps, and HDPE Brine Pipeline in accordance with the operational plan submitted in the NOI and Discharge Permit Application dated May 18, 2022, and the subsequent Request for Additional Information (RFAI) and response from the permittee dated January 24 and March 8, 2023, respectively. This includes pond operation such as harvesting salt on a rotating basis dependent on production levels, maintaining a one-foot bed of salt for protection of the synthetic liner, stockpiling salt only in approved areas within the ponds and on the Salt Stockpile Pad, capturing all run off in the Runoff Collection Pond (Pond 5A), and maintaining a minimum of two feet of freeboard within all ponds. This also includes the Brine Well pump and Pipeline operation such as maintaining a maximum pumping rate of 400 gpm and a maximum working pressure of the Brine Pipeline at or below 125 psi.
- B. The permittee shall maintain on-site engineering design plans, specifications, and as-built drawings for all operational units within the Site which include the following: Brine Well (C-02713 POD1), HDPE Brine Pipeline from the Brine Well to the Site and interconnecting pipelines between solar ponds, Solar Evaporation Ponds 1 through 6, Salt Stockpile Pad, Salt Processing Plant, Rinse Water Well (C-02713 POD2), and Runoff Collection Pond (Pond 5A). All engineering design plans, specifications or as-built drawings submitted or maintained by the permittee associated with DP-1754 must contain sufficient detail for approval as determined by NMED.
- C. The permittee shall maintain fencing around the Site perimeter to control unauthorized access by the general public, wildlife, and livestock.
- D. Pursuant to applicable requirements of 20.6.2.1203 and 20.6.2.3104 NMAC, upon discontinuing the operation of, or before moving or cleaning ponds, pipelines, or other containment systems, all liquids shall be released to a location specifically authorized by this Discharge Permit, an alternate location subject to NMED approval, or otherwise properly contained, transferred, or disposed of in a manner that does not result in discharge to non-authorized areas.

### **C101 Stormwater Management**

- A. All non-impacted stormwater that enters the site shall be managed to prevent contact with any material that has the potential to generate leachate and cause an exceedance of the water quality standards of Section 20.6.2.3103 NMAC.

- B. All stormwater that contacts salt products within the Site (i.e. impacted stormwater) shall be contained onsite in the Runoff Collection Pond (Pond 5A) or the other lined Solar Evaporation Ponds to prevent infiltration into the ground.
- C. Stormwater generated upgradient of the Site shall be diverted to prevent contact or contamination from salt products onsite. If at any time it is shown that upgradient stormwater is entering the site and becoming contaminated, excavated ditches and constructed dikes will be required to prevent contact of stormwater with any onsite salt products.

### **C102 Flow measurement**

- A. The permittee utilizes the following flow meters to measure regulated discharge volumes pursuant to this Discharge Permit and as required by 20.6.2.3107 NMAC.
  - 1) Brine Well (C-2713 POD1): A closed pipe, horizontally mounted, six-inch, stainless steel, L-series propeller meter from McCrometer. Nominal flow for this meter is 90-1200 gpm with an accuracy of  $\pm 2\%$ , and repeatability of 0.25% or better. The maximum operating flow rate, water pressure, and water temperature are 1200 gpm, 150psi, 160°F, respectively for this meter.
  - 2) Rinse Well (C-2713 POD2): A closed pipe, class-B, horizontally mounted, two-inch, stainless steel, multi-jet water meter from PRM Filtration. Nominal flow for this meter is 5-130 gpm with an accuracy of  $\pm 2\%$ , and  $\pm 5\%$  for transitory flow. The maximum operating flow rate, water pressure, and water temperature are 130 gpm, 150psi, 104°F, respectively for this meter.
- B. The permittee shall visually inspect all flow meters monthly for evidence of malfunction, and repair or replace malfunctioning flow meters within 30 days of, or as soon as practicable, following discovery.

### **C103 Monitoring Requirements**

The permittee shall conduct the following monitoring requirements set forth below. Table 1 of this Discharge Permit provides a summary of monitoring requirements. Figures 1 and 2m display sampling locations. [20.6.2.3107 NMAC]

- A. The permittee shall monitor groundwater quality semi-annually in monitoring wells SWS-1, SWS-2, LG-27, and the Rinse Water Well (C-02713 POD2) as follows:
  - 1) Field parameters (analysis to be performed in the field): depth to the water table measured to the nearest hundredth of a foot (0.01 foot), pH, temperature, and

specific conductance. Depth to water is not required for the Rinse Water Well (C-02713 POD2).

- 2) General chemistry parameters (groundwater samples shall be collected and dissolved concentrations analyzed by a professional accredited laboratory): calcium (Ca), magnesium (Mg), sodium (Na), potassium (K), sulfate (SO<sub>4</sub>), chloride (Cl), boron (B), manganese (Mn), selenium (Se), total alkalinity (ppm as CaCO<sub>3</sub>), and total dissolved solids (TDS).
- B. The permittee shall monitor surface water quality semi-annually in the Pecos River at the locations labeled in Figure 2 as “Pecos River Upstream Monitoring Location” and “Pecos River Downstream Monitoring Location” as follows:
- 1) Field parameters (analysis to be performed in the field): pH, temperature, specific conductance, dissolved oxygen (DO) concentration, salinity, and TDS.
  - 2) General chemistry parameters (surface water samples shall be collected and dissolved concentrations analyzed by a professional accredited laboratory): calcium (Ca), magnesium (Mg), sodium (Na), potassium (K), sulfate (SO<sub>4</sub>), chloride (Cl), boron (B), manganese (Mn), selenium (Se), total alkalinity (ppm as CaCO<sub>3</sub>), and total dissolved solids (TDS).
- C. The permittee shall monitor the brine effluent from the Brine Well (C-02713 POD1) semi-annually, at the point of discharge from the Brine Pipeline to the Solar Evaporation Ponds, as follows:
- 1) General chemistry parameters (effluent water samples shall be collected and dissolved concentrations analyzed by a professional accredited laboratory): calcium (Ca), magnesium (Mg), sodium (Na), potassium (K), sulfate (SO<sub>4</sub>), chloride (Cl), boron (B), manganese (Mn), selenium (Se), total alkalinity (ppm as CaCO<sub>3</sub>), and total dissolved solids (TDS).
- D. The permittee shall monitor the monthly volumes extracted from the Brine Well (C-02713 POD1) and Rinse Water Well (C-02713 POD2) using totalizing meters as described in Section C102.A of this Discharge Permit.
- E. The permittee shall conduct the following daily inspections:
- 1) The Brine Well (C-02713 POD1) and the HDPE Brine Pipeline from the well to the Site.
  - 2) All interconnecting pipelines associated with the Solar Evaporation Ponds.

- 3) All Solar Evaporation Ponds to ensure proper water levels are maintained, all berms are intact, and the HDPE liners are not damaged.
- F. Unless otherwise approved in writing by NMED, the permittee shall conduct all groundwater, surface water, and effluent sampling and analysis in accordance with the most recent editions of the references listed in Subsection B of 20.6.2.3107 NMAC.
  - G. Requests to change monitoring and reporting requirements may require modification or amendment of this Discharge Permit as required by the NMED Secretary. [20.6.2.3107 NMAC]

#### **C104 Reporting**

Pursuant to 20.6.2.3107 NMAC, the permittee shall submit to NMED semi-annual monitoring reports by the last day of January and July of each year containing information collected during the preceding six months. Table 1 of this Discharge Permit provides a summary of reporting requirements. Data collected annually shall be submitted in the January report. Semi-annual monitoring reports shall include:

- A. A summary of all relevant activities conducted at the Site during the preceding six months including, without limitation, operational activities, operational failures, discharge volumes, significant changes in daily flow rates, maintenance, repairs, well installation and abandonment, stormwater management, Site construction, water quality and water level plots, field data sheets and lab analysis results for all water and effluent samples, and any discharges reported as required by Section 20.6.2.1203 NMAC.
- B. A single, cumulative table, displaying all water quality data for monitoring locations required by DP-1754. For each monitoring location, the name of the well or sample point shall be entered in the far-left column and the date of the sampling event in the second column. Sampling events, beginning with the earliest event first, shall be entered in subsequent rows with the corresponding analytical data in columns to the right. Each new sampling event shall be added as an additional row to the existing spreadsheet. Any constituent not analyzed for a particular site shall be shown as "NA," any site not sampled shall be shown as "NS," and any site not measured for water levels shall be shown as "NM." Any such entry shall be accompanied by a note explaining why the site was not sampled, the constituent was not analyzed, or the water level was not measured. The tables shall be submitted in electronic format (editable spreadsheet, not pdf or jpeg).
- C. Graphs displaying all water quality and water level data for the groundwater monitoring wells listed in Condition C103.A, and all water quality data for the upstream and downstream Pecos River monitoring locations listed in Condition C103.B. Water quality graphs shall include plots of the following constituents: calcium, magnesium, sodium,

potassium, sulfate, chloride, boron, manganese, selenium, total alkalinity, and total dissolved solids.

- D. Electronic copies of field data sheets and signed laboratory analyses and laboratory QA/QC sheets (all raw data as provided by the field collection team and accredited laboratory that performed the analysis).
- E. Monthly totalized volumes of brine extracted from the Brine Well (C-02713 POD1) and Rinse Water Well (C-02713 POD2).
- F. A description of all flow meters that were repaired or replaced, including a description of any flow meter malfunctions, and a statement verifying the repair and calibration of the flow meter(s).
- G. A potentiometric surface map of groundwater elevations beneath the site, to be updated annually and included in the January report.
- H. Monthly Pecos River water data that is collected pursuant to requirements from the New Mexico Office of the State Engineer (NM OSE), Pecos River Commission. To be submitted as a table in electronic format (editable spreadsheet, not pdf or jpeg).

#### **C105 Closure Plan**

- A. Within 90 days from the effective date of this permit [DATE], the permittee shall submit an updated closure plan to NMED for approval as required by Subsection A (11) of 20.6.2.3107 NMAC. At a minimum, the closure plan shall include the following elements:
  - 1) All mine units shall be closed in a manner that is protective of surface and groundwater quality.
  - 2) Pursuant to applicable requirements of 20.6.2.1203 and 20.6.2.3104 NMAC, upon discontinuing the operation of, or before moving or cleaning ponds, pipelines, or other containment systems, all liquids shall be released to a location specifically authorized by this discharge permit, or an alternate location subject to prior NMED approval, that does not result in discharge to non-authorized areas.
  - 3) All pipelines, including the Brine Pipeline, shall be sectioned, and removed from the site for reuse, recycling, or disposal in accordance with applicable regulations, unless otherwise approved by NMED.
  - 4) All liquids in the Solar Evaporation Ponds shall be allowed to evaporate or properly disposed of as approved by NMED.
  - 5) All solids at the site, including those removed from the Solar Evaporation Ponds and processing plant, shall be disposed of in accordance with applicable regulations.



- 6) The salt evaporation pond liners and Salt Stockpile Pad liners shall be removed and disposed of in accordance with applicable regulations.
  - 7) All berms shall be leveled, and all Solar Evaporation Ponds shall be backfilled to form a positive grade.
  - 8) The Salt Processing Plant shall be decommissioned and demolished, and the site graded and contoured to prevent erosion.
  - 9) Power lines shall be decommissioned but may remain in place.
  - 10) Access roads and the main roadway through the Site shall remain in place to provide access for ranchers and other development in the area.
  - 11) All disturbed areas, including borrow pits, shall be graded and seeded with a preapproved seed mixture.
  - 12) All stormwater shall be managed during and post closure so as to prevent contact with any material that has the potential to generate leachate and cause an exceedance of the water quality standards of Section 20.6.2.3103 NMAC. Stormwater run-on that is generated upgradient of the Site shall be diverted around the site by means of excavated ditches and constructed dikes to prevent contact with any onsite contamination.
  - 13) The Brine Well (C-2713 POD1) and the Rinse Water Well (C-2713 POD2) shall be plugged and abandoned in accordance with Condition D104 of this Discharge Permit and Office of the State Engineer requirements.
  - 14) The permittee shall maintain adequate water rights to implement the closure plan required by this Discharge Permit.
  - 15) Any additional closure or maintenance measures necessary to close the Site and prevent contamination of ground and surface water in accordance with the standards set forth in 20.6.2.3103 NMAC.
  - 16) A statement of obligation of the permittee to implement the closure plan and adhere to any requirements, should the closure plan survive the termination or expiration of this Discharge Permit.
- B. Upon closure, after the permittee completes closure of all authorized mine units, the permittee shall continue ground and surface water monitoring as described in Conditions C103.A and C103.B, and reporting in accordance with Condition C104, for a minimum of eight (8) consecutive sampling events, with a minimum of ninety (90) days between sampling events, spanning a time period no greater than four (4) years, to confirm the absence of ground and surface water contamination. If monitoring results indicate that ground or surface water contamination has occurred from the Site that will cause

applicable standards to be exceeded or cause the extent or magnitude of existing contamination to significantly increase, the permittee shall implement the contingency plan described in Condition D103 below.

- C. Following approval from NMED that post-closure monitoring may cease, the permittee shall plug and abandon all monitoring wells. Monitoring well abandonment shall be completed in accordance with the attached Monitoring Well Guidance (Attachment 1) and according to regulations issued by the Office of the State Engineer in 19.27.4 NMAC, unless an alternate method is approved by NMED. When all post-closure requirements have been met, the permittee may request to terminate the Discharge Permit. [Subsection A (11) of 20.6.2.3107 NMAC]
- D. The permittee shall submit to NMED in writing the intent to close the Site or intent to implement the closure plan. Notification shall be given at least 30 days prior to implementation of closure activities.

#### **C106 Financial Assurance**

- A. The permittee shall maintain financial assurance in an amount sufficient to cover the cost of a third party to implement the closure plan required in Condition C105 of this Discharge Permit. The financial assurance shall ensure that funds will be available for a third party to implement the closure plan, including post-closure monitoring, if at any time after cessation of operation the permittee is unable, unwilling, or otherwise fails to implement closure of the Site. [Subsection A (11) of 20.6.2.3107 NMAC]
- B. Within 90 days of the effective date of this Discharge Permit [DATE] the permittee shall submit to NMED for approval an updated cost estimate for closure of the Site. The cost estimate shall include a line-item cost for each operational unit to be closed as required in Condition C105. The submittal shall include supporting documentation justifying the cost basis for each mine unit to be closed and shall take into consideration third party costs for work plan preparation, field work, sampling, field instrumentation, consultant fees, laboratory analyses, data evaluation, indirect costs, and final reports. [Subsection A (11) of 20.6.2.3107 NMAC]
- C. Within 30 days after NMED approval of the updated cost estimate, the permittee shall execute an updated Letter of Credit or other such financial assurance instrument(s) that meets the requirements of Conditions D through E of this section. The permittee shall provide NMED with an original signed and notarized copy of each of the financial assurance instrument(s). The instrument(s) shall be maintained until the financial assurance is released in writing by NMED. [Subsection A (11) of 20.6.2.3107 NMAC]

- D. The financial assurance, including any revised financial assurance, shall meet the following standard requirements:
- 1) The financial assurance shall be executed in an amount equal to the NMED approved closure cost estimate. The closure cost estimate shall include direct costs associated with third party implementation of the closure plan, contingency costs, and NMED oversight and administration costs, including indirect costs.
  - 2) NMED shall be named as the sole beneficiary in the financial assurance instrument(s).
  - 3) The financial assurance instrument(s) shall remain in effect throughout the term of this Discharge Permit, including the post-closure period, and until released in writing by NMED. The financial assurance 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.
  - 4) The financial assurance shall include a provision, requiring the financial assurance provider to provide at least 120 days written notice to NMED and the permittee prior to cancellation or non-renewal of the financial assurance instrument. The permittee shall obtain an NMED approved alternate financial assurance mechanism within 60 days of such notice (i.e., standby trust fund). If Southwest Salt Company, LLC fails to obtain alternate financial assurance within 60 days, the current financial assurance shall become immediately payable to the standby trust fund.
  - 5) If NMED determines that implementation of the closure plan is required and that the permittee is unable, unwilling, or will otherwise fail to conduct or complete the closure requirements of 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 certified mail return receipt requested, to the permittee and all financial assurance providers informing them of the determination to forfeit all or a portion of the financial assurance. The written notice will state the reasons for the forfeiture and the amount to be forfeited. The amount shall be based on the total cost of performing closure, including post-closure monitoring and maintenance, in accordance with this Discharge Permit and all applicable laws and regulations. NMED will also advise the permittee and all financial assurance providers of the conditions under which forfeiture may be avoided. Such conditions may include, without limitation, an agreement by the permittee, by a financial assurance provider, or by an NMED-approved third party to perform closure, including post-closure monitoring and maintenance, in accordance with this Discharge Permit and all applicable laws and regulations, as well as a demonstration that such person has the financial ability and technical qualifications to do so. All financial assurance forfeited shall become immediately payable to NMED or as otherwise provided in the approved instrument(s). Forfeited funds shall be used to

implement the closure plan. If the forfeited amount is insufficient, the permittee shall be liable for the remaining costs. If the amount forfeited is more than necessary, the excess amount shall be refunded to the person from whom it was collected.

- 6) All or part of the financial assurance shall be released or modified when NMED determines that the corresponding closure and post-closure measures covered by the financial assurance have been completed according to the closure plan requirements of this Discharge Permit. [Subsection A (11) of 20.6.2.3107 NMAC]
- E. Within 30 days of NMED approval of a revised closure plan or post-closure measures, or upon determination that existing financial assurance is inadequate, the permittee shall submit to NMED for approval a revised closure cost estimate and financial assurance instruments. Within 30 days of NMED approval of the revised financial assurance instruments, the permittee shall execute the revised financial assurance instruments and submit signed, notarized copies to NMED. [Subsection A (11) of 20.6.2.3107 NMAC]

#### **Part D GENERAL CONDITIONS**

General conditions issued by the Ground Water Quality Bureau pursuant to Part 20.6.2 NMAC are listed below.

##### **D100 Enforcement**

- A. Any violation of the requirements and conditions of this Discharge Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the permittee to a civil enforcement action. Pursuant to the NMSA 1978, Section 74-6-10(A) and (B), such action may include a compliance order requiring compliance immediately or in a specified time, assessing a civil penalty, modifying, or terminating the Discharge Permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to the NMSA 1978, Section 74-6-10(C) and Section 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the WQA, 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. [NMSA 1978, § 74-6-10; NMSA 1978, § 74-6-10.1]
- B. Pursuant to the NMSA 1978, Section 74-6-10.2(A)-(F), criminal penalties may be assessed for any person who knowingly violates or knowingly causes or allows another person to:

- 1) Make any false material statement, representation, certification, or omission of material fact in an application, record, report, plan, or other document filed, submitted, or required to be maintained under the WQA.
- 2) Falsify, tamper with, or render inaccurate any monitoring device, method, or record required to be maintained under the WQA.
- 3) Fail to monitor, sample, or report as required by a permit issued pursuant to a state or federal law or regulation.

#### **D101 General Inspection and Entry Requirements**

- A. Nothing in this Discharge Permit shall be construed as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other applicable law or regulation. [20.6.2.3107 NMAC; NMSA 1978, § 74-6-9(8) & (E)]
- B. The permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials, to [Subsection D of 20.6.2.3107 NMAC; NMSA 1978, § 74-6-9(B) & (E)]:
  - 1) Enter at regular business hours or at other reasonable times upon the permittee's premises or other location where records must be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.
  - 2) Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.
  - 3) Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment or treatment works), practices or operations regulated or required under this Discharge Permit, or under any federal or WQCC regulation.
  - 4) Sample or monitor, at reasonable times for the purpose of assuring compliance with this Discharge Permit or as otherwise authorized by the WQA, any effluent, water contaminant, or receiving water at any location before or after discharge.

#### **D102 General Record Keeping and Reporting Requirements**

- A. Pursuant to Subsection A of 20.6.2.3107 NMAC, the permittee shall maintain a written record of the following:
  - 1) Information and data used to complete the application for this Discharge Permit.
  - 2) Any releases (commonly known as "spills") not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC.

- 3) The operation, maintenance, and repair of all facilities/equipment used to treat, store, or process brine.
  - 4) Facility records and drawings (plans and specifications) showing the actual construction of the Site and all authorized mine units bearing the seal and signature of a licensed New Mexico professional engineer.
  - 5) Amount of process water, stormwater, or other wastes discharged pursuant to this Discharge Permit.
  - 6) Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit.
  - 7) Copies of construction records (well logs) for all sampled groundwater monitoring wells pursuant to this Discharge Permit.
  - 8) The maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit.
- B. The permittee shall maintain at its facility a written record of all data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including:
- 1) The dates, exact place, and times of sampling or field measurements.
  - 2) The name and job title of the individuals who performed each sample collection or field measurement.
  - 3) The date of the analysis of each sample.
  - 4) The name and address of the laboratory and the name and job title of the person that performed the analysis of each sample.
  - 5) The laboratory analysis chain-of-custody.
  - 6) The analytical technique or method used to analyze each sample or take each field measurement.
  - 7) The results of each analysis or field measurement, including raw data.
  - 8) The results of any split, spiked, duplicate, or repeat sampling.
  - 9) A description of the quality assurance (QA) and quality control (QC) procedures used.
- C. The Permittee shall maintain the written record at a location accessible to NMED during a Site inspection for the lifetime of the Discharge Permit. The Permittee shall make the record available to a NMED representative during a Site inspection upon request.

- D. The permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine whether cause exists for modifying, terminating, or renewing this Discharge Permit, or to determine compliance with this Discharge Permit. [Subsection D of 20.6.2.3107 NMAC, NMSA 1978, § 74-6-9(B) & (E)]

### **D103 Contingency Measures**

- A. In the event that the Site exceeds the authorized discharge volume set in this Discharge Permit, the Permittee shall notify NMED within seven (7) days of the discovery of the discharge volume exceedance. The Permittee shall conduct a physical inspection of the discharge system and all meters/volume measuring devices to detect abnormalities and report the findings to NMED within 30 days of the discovery of the discharge volume exceedance. The Permittee shall correct any abnormalities detected with NMED's concurrence. If the Permittee does not detect any abnormalities and with NMED's concurrence, the Permittee shall submit a discharge permit modification for the increase in discharge quantity to NMED within 90 days of the discovery of the discharge volume exceedance. The discharge permit modification must include demonstration that the volume increase is sufficient for the design capacity or plans and specifications to upgrade the system to accommodate the discharge volume increase. [Subsection A of 20.6.2.3107 NMAC]
- B. If monitoring associated with pond liner inspections in accordance with Condition C103.E(3) or monitoring of surface or groundwater pursuant to this Discharge Permit, indicates the integrity of a liner system or its ability to contain contaminants is compromised, the permittee shall notify NMED verbally within 24 hours of the discovery. The permittee shall submit to NMED for approval within 7 days of discovery a corrective action plan and schedule for implementation to repair or replace the liner. Repairs or replacement shall be conducted in accordance with the approved schedule. In the event an unauthorized discharge has occurred as a result of the liner failure, the discharge shall be reported in accordance with Condition D105. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
- C. If monitoring of surface or groundwater pursuant to this permit indicates that discharges under this Discharge Permit are causing applicable standards to be exceeded, or causes the extent or magnitude of existing surface or groundwater contamination to significantly increase, the permittee shall collect a confirmatory sample from the monitoring location(s) within 15 days to confirm the initial sampling results, unless the permittee elects to accept the initial sampling results as an accurate measurement of water quality. Within 60 days of the subsequent sample analysis date, the permittee shall propose measures to ensure that the exceedance of the applicable standard(s) will be mitigated by submitting a corrective action plan to NMED for approval. The corrective action plan

shall include a description of the proposed actions to control the source and an associated completion schedule. The plan shall be enacted as approved by NMED. Once invoked (whether during the term of this Discharge Permit; or after the term of this Discharge Permit and prior to the completion of the Discharge Permit closure plan requirements), this condition shall apply until the permittee has fulfilled the requirements of the corrective action plan and surface or groundwater monitoring confirms for a minimum of eight quarters of consecutive sampling events that the applicable standards are not exceeded. The permittee may be required to abate water pollution pursuant to 20.6.2.4000 through 20.6.2.4115 NMAC, should the corrective action plan not result in compliance with the standards and requirements set forth in 20.6.2.4103 NMAC within 180 days of confirmed surface or groundwater contamination. [20.6.2.1203 NMAC]

- D. In the event that the required two (2) feet of freeboard cannot be maintained in an impoundment, the Permittee shall notify NMED verbally within 24 hours of the discovery. The permittee shall take actions authorized by this Discharge Permit and all applicable local, state, and federal regulations to restore the required freeboard. In the event that the required freeboard cannot be restored within a period of 72 hours following discovery, the Permittee shall propose actions to be immediately implemented to restore of the required freeboard by submitting a short-term Corrective Action Plan (CAP) to NMED for approval. The short-term corrective action plan shall include a description of the proposed actions to restore the required freeboard and an associated completion schedule. The Permittee shall implement the shot-term CAP following approval by NMED. In the event that short-term corrective actions fail to restore the required freeboard, the Permittee shall propose permanent corrective actions in a long-term CAP submitted to NMED within 90 days following failure of the short-term CAP. The long-term corrective action plan shall include a description of the proposed actions to restore the required freeboard and an associated completion schedule. The Permittee shall implement the long-term CAP following approval by NMED. [Subsection A of 20.6.2.3107 NMAC]
- E. If NMED or the permittee identifies any other failure of the discharge plan or system not specifically noted in this Discharge Permit that has the potential to impact water quality, NMED may require the permittee to develop and submit to NMED for approval a contingency plan and schedules to address the failure. [Subsection A (10) of 20.6.2.3107 NMAC]

#### **D104 Monitoring Well Abandonment and Replacement**

- A. The permittee shall submit a written request for NMED approval in accordance with Section C103.H at least 30 days prior to the anticipated destruction or removal of any monitoring wells required under DP-1754. Monitoring well plugging and abandonment shall be completed in accordance with the attachment titled *Ground Water Quality*



*Bureau Monitoring Well Construction and Abandonment Guidelines*, Revision 1.1, March 2011 (Monitoring Well Guidance), and according to regulations issued by the Office of the State Engineer (OSE) in 19.27.4 NMAC, unless an alternate method is approved by NMED and the OSE. [20.6.2.3107 NMAC]

- B. The written notification required in Condition D104.A shall include the following information:
- 1) A scaled map showing the location of the monitoring well(s) and the mine units it is intended to monitor.
  - 2) The purpose for plugging and abandoning the monitoring well(s).
  - 3) Well completion reports including top-of-casing elevation, construction logs, and lithologic logs.
  - 4) Recent groundwater monitoring data from a minimum of the most recent eight sampling events.
  - 5) Proposed replacement well(s), if applicable.
- C. In the event that information available to NMED indicates that a groundwater monitoring well is not constructed in a manner consistent with the attachment titled *Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines*, Revision 1.1, March 2011 (Monitoring Well Guidance), is not located hydrologically downgradient of the discharge location it is intended to monitor, contains insufficient water to effectively monitor groundwater quality, or is 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 install replacement wells at locations approved by NMED and completed in accordance with Condition D104.A. The Permittee shall submit construction and lithologic logs, survey data and a groundwater elevation contour map to NMED within 60 days following well completion. The Permittee shall properly plug and abandon the monitoring well requiring replacement upon completion of the replacement monitoring well. The Permittee shall complete the well plugging and abandonment completed in accordance with Condition D104.A. The Permittee shall submit well abandonment documentation to NMED within 60 days of completion of well plugging activities. [Subsection A of 20.6.2.3107 NMAC]

#### **D105 Reporting Requirements for Unauthorized Discharges**

- A. In the event of a spill or release that is not authorized under this Discharge Permit, the permittee shall initiate notifications and corrective actions required in 20.6.2.1203 NMAC. The permittee shall take immediate corrective action to contain and remove or mitigate the damage caused by the discharge. Within 24 hours after discovery of the discharge, the permittee shall verbally notify NMED and provide the information required by

Subsection A (1) 20.6.2.1203 NMAC. Impacted water shall be contained and transferred to an NMED-approved location. Failed components shall be repaired or replaced within 48 hours from the time of failure or as soon as possible. Within seven days of discovering the discharge, the permittee shall submit to NMED a written report verifying the oral notification and providing any additional information or changes. The permittee shall submit a corrective action report within 15 days after discovery of the discharge. [20.6.2.1203 NMAC]

- B. In the event that an 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, the Permittee may be required to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC.

#### **D106 Operational Failures**

- A. In the event of a pipeline break or leak, pump failure, catchment overflow, or other system failure associated with any operational unit covered under DP-1754, all brine discharge water shall be contained, recovered, and reused or disposed of properly. NMED shall be notified within 24 hours of the failure. All failed components shall be repaired or replaced as soon as possible and no later than within 72 hours of discovery of the failure, unless the permittee obtains a written consent and a new, approved timetable from NMED.
- B. In the event NMED or the permittee identifies any other failures of the discharge plan or system not specifically noted in this permit, NMED may require the permittee to develop for NMED approval contingency plans and schedules to address such a failure.

#### **D107 Modifications and Amendments**

- A. The permittee shall notify and obtain approval from NMED of any proposed change to the Site or the Site discharges that would result in a change in the volume discharged, the location of the discharge, or in the amount or character of water contaminants received, treated, or discharged by the facility, prior to implementing such changes. Such changes may require modification or amendment to this Discharge Permit. [Subsection C of 20.6.2.3107 NMAC; Subsections E, F, G of 20.6.2.3109 NMAC]
- B. The permittee shall file plans and specifications with NMED for the construction of new wastewater system(s) and for any proposed changes to current wastewater system(s) that will change substantially the quantity or quality of the discharge from that system.

The permittee shall file plans and specifications prior to the commencement of construction. [20.6.2.1202 NMAC]

- C. Pursuant to Section 20.6.2.3109 NMAC, NMED reserves the right to require a discharge permit modification in the event NMED determines that the requirements of Part 20.6.2 NMAC are being or may be violated, or the standards of Section 20.6.2.3103 NMAC are being or may be violated. This may include a determination that structural controls, monitoring, or management practices approved under this Discharge Permit are not protective of groundwater quality, and that more stringent requirements are needed to protect groundwater quality.

**D108 Compliance with Other Laws**

- A. Nothing in this Discharge Permit shall be construed in any way as relieving the permittee of the obligation to comply with all applicable federal, state, and local laws, regulations, permits or orders. [20.6.2 NMAC] [NMSA 1978, § 74-6-1 through § 74-6-17]

**Table 1: Monitoring and Reporting Summary for Southwest Salt Malaga Facility, DP-1754**

<b>Monitoring Report Schedule of Submittal</b>				
SP1	January 1 through June 30 - Semi-annual report due by July 31 of each year			
SP2	July 1 through December 31 - Semi-annual report due by January 31 of each year			
<b>Reporting Summary</b>				
Annual Sampling Frequency	Annual Reporting Frequency	Number of Sites	Description	
2	2	4	Groundwater Monitoring: Wells SWS-1, SWS-2, LG-27, and Rinse Well C-2713 POD1 (Condition C103.A)	
2	2	2	Surface Water Monitoring: Pecos River Upstream and Downstream Monitoring Locations (Condition C103.B)	
2	2	1	Brine Monitoring: Brine Well C-2713 POD1 (Condition C103.C)	
NA	2	NA	Semi-annual Monitoring Reports containing all information required by Condition C104	
<b>Monitoring Schedule</b>				
Monitoring Location	Sampling			Notes
	type	SP1	SP2	
SWS-2	mw	ABW	ABW	Semi-annual reporting
SWS-2	mw	ABW	ABW	Semi-annual reporting
LG-27	mw	ABW	ABW	Semi-annual reporting
Rinse Well (C-2713 POD2)	ew	AB	AB	Semi-annual reporting
Brine Well (C-2713 POD1)	ew	B	B	Semi-annual reporting
Pecos River Upstream	s	BC	BC	Semi-annual reporting
Pecos River Downstream	s	BC	BC	Semi-annual reporting
<u>Sampling Analytical Suites:</u>				
A = Field parameters: Temperature, pH, and specific conductance				
B = General chemistry parameters: calcium (Ca), magnesium (Mg), sodium (Na), potassium (K), sulfate (SO <sub>4</sub> ), chloride (Cl), boron (B), manganese (Mn), selenium (Se), total alkalinity (ppm as CaCO <sub>3</sub> ), and total dissolved solids (TDS)				
C = Field parameters: Temperature, pH, and specific conductance, dissolved oxygen (DO) concentration, salinity, TDS				
<u>Measurements:</u>				
W = Depth to water measurement to the nearest 0.01 foot				
<b>Explanation to Abbreviations and Symbols</b>				
<u>Type:</u> mw = monitoring well ew = extraction well s = surface water			<u>Sampling Period:</u> SP1 = January – June SP2 = July – December	



Figure 1: Site Map

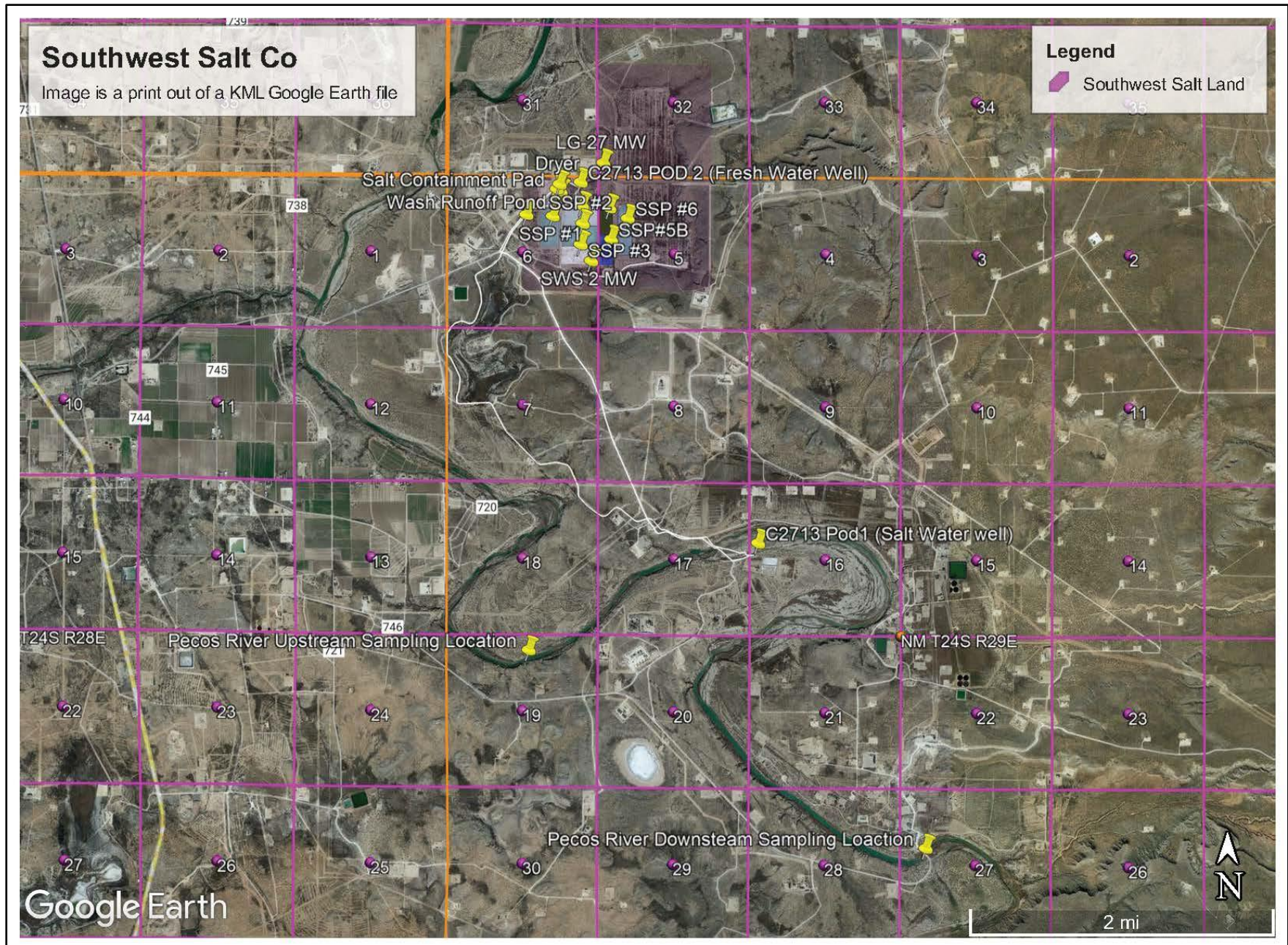


Figure 2: Authorized Mine Units