



A division of the  
Nevada Department of Conservation & Natural Resources

NEVADA DIVISION OF  
**ENVIRONMENTAL  
PROTECTION**

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**FACTSHEET**  
**(pursuant to NAC 445A.236)**

**Permittee Name:** WESTERN EMULSIONS, INC.

3450 E. 36TH STREET  
TUCSON, AZ 85713

**Permit Number:** NS2026515

**Permit Type:** GROUNDWATER DISCHARGE

**Designation:** GROUNDWATER

**New/Existing:** NEW

**Location:** FALLON ASPHALT PRODUCTS PLANT, CHURCHILL  
2364 PAVER DRIVE, FALLON, NV 89406  
LATITUDE: 39.497150, LONGITUDE: -119.040820  
TOWNSHIP: 19N, RANGE: 26E, SECTION: 23

| Outfall / Well Num | Outfall / Well Name              | Location Type    | Well Log Num | Latitude  | Longitude   | Receiving Water |
|--------------------|----------------------------------|------------------|--------------|-----------|-------------|-----------------|
| 001                | NORTHERN EVAPORATION BASIN       | External Outfall |              | 39.497150 | -119.040820 | GROUNDWATER     |
| 002                | NORTHERN LEAK DETECTION          | External Outfall |              | 39.497150 | -119.040820 | GROUNDWATER     |
| 003                | SOUTHERN EVAPORATION BASIN       | External Outfall |              | 39.497150 | -119.040820 | GROUNDWATER     |
| 004                | SOUTHERN LEAK DETECTION          | External Outfall |              | 39.497150 | -119.040820 | GROUNDWATER     |
| 005                | UPGRADIENT MONITORING WELL 001   | Monitoring Well  |              | 39.497150 | -119.040820 | GROUNDWATER     |
| 006                | DOWNGRADIENT MONITORING WELL 002 | Monitoring Well  |              | 39.497150 | -119.040820 | GROUNDWATER     |
| 007                | DOWNGRADIENT MONITORING WELL 003 | Monitoring Well  |              | 39.497150 | -119.040820 | GROUNDWATER     |

**Permit History/Description of Proposed Action**

The Permittee, Western Emulsions, Inc., operator of the Fallon Asphalt Products Plant at 2364 Paver Drive in Fallon, Nevada, has requested a new Groundwater Discharge Permit. The Permittee proposes to discharge boiler blowdown water to two double-lined evaporation basins located at the asphalt products plant.

This is a new permit.

**Facility Overview**

Fallon Asphalt Products Plant is currently constructing an industrial plant to manufacture asphalt products. The facility will consist of storage tanks with concrete foundations to store raw materials and finished products, a compacted gravel pad for temporary shipping container storage, modular buildings for office space and laboratory, a shop building with a boiler and mechanical equipment, two (2) above-ground truck scales, and two (2) geomembrane-lined evaporation ponds for the management of non-hazardous boiler blowdown water.

The boiler capacity is 2,800 gallons, and the design capacities of the ponds are intended to accommodate a complete discharge from the boiler. The proposed rectangular ponds will be constructed with round corners, and a depth of seven (7) feet with a one (1) foot thick layer of drainage sand on the bottom to protect the primary liner. The ponds will have a minimum of two (2) foot depth freeboard.

The proposed northern pond will have dimensions of 97 feet long by 62 feet wide, and the proposed southern pond will have dimensions of 97 feet long by 84 feet wide. The ponds will be double-lined with a smooth 60-mil high-density polyethylene (HDPE) geomembrane liner over a 60-mil HDPE secondary liner. Each pond will have a leak detection system and removal sump that will be routinely monitored, with a dip stick or other method, to determine if liquids have accumulated in the sump, if the leak rate exceeds 125 gallons per acre per day the operator will develop a plan to identify the source of the leakage, and to repair the leak. Each pond will have a six (6) foot wide ramp, serving as an emergency egress while in operation and for maintenance access when the basin is drained and out of service.

As part of the permit requirements, the Permittee shall submit two (2) copies (one hard copy and one electronic copy) of an Operations and Maintenance (O&M) Manual for review and approval by the Nevada Division of Environmental Protection (the Division). The O&M Manual shall follow the Division's guidance document, WTS-2 Minimum Information Required for an Operation and Maintenance Manual and be prepared and wet-stamped by a licensed, qualified Nevada engineer (P.E.), within 90 days from the date of issuance of this permit.

The Permittee shall also submit to the Division, for review and approval, a Monitoring Well Design Plan for the three (3) dedicated monitoring wells (two (2) downgradient and one (1) upgradient) of the proposed evaporation basins area. The design must be in accordance with the Division's guidance WTS-4 Guidance Document for The Design and Construction of Groundwater Monitoring Wells, the monitoring wells shall be sampled for arsenic, manganese, Total Petroleum Hydrocarbons (TPH), and Total Dissolved Solids (TDS) to ensure groundwater quality, and is due within 90 days from the date of issuance of this permit.

### **Outfall Summary**

Outfall 001: North Evaporation Basin is an external Outfall that monitors and reports Profile 1 contaminants, TPH, and Freeboard height.

Outfall 002: Leak Detection is an External Outfall monitored for liner leak rate measured in gallons per acre per day.

Outfall 003: Southern Evaporation Basin is an external Outfall that monitors and reports Profile 1 contaminants, TPH, and Freeboard height limited to greater than or equal to two (2) feet.

Outfall 004: Leak Detection is an external Outfall monitored for liner leak rate measured in gallons per acre per day.

Outfall 005: Monitoring Well 001: Is an upgradient well, monitored for Arsenic, Manganese, TDS, pH, TPH, Water level relative to mean sea level, and Depth to water level in feet below land surface.

Outfall 006: Monitoring Well 002: Is an downgradient well, monitored for Arsenic, Manganese, TDS, pH, TPH, Water level relative to mean sea level, and Depth to water level in feet below land surface.

Outfall 007: Monitoring Well 003: Is an downgradient well, monitored for Arsenic, Manganese, TDS, pH, TPH, Water level relative to mean sea level, and Depth to water level in feet below land surface.

### **Effluent Characterization**

This is a new permit; therefore, this section is not applicable. The Plant has not been constructed yet and no discharge has occurred therefore no characterization is available.

### **Pollutants of Concern**

Pollutants of concern are any pollutant, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological, conditions of the receiving water. Pollutants of concern include: Profile 1 contaminants, TPH, Oil and Grease, TDS. Monitoring and sampling is required to ensure protection of water.

**Receiving Water**

The receiving water is groundwater of the State via percolation. The Division will require Fallon Asphalt Products Plant to install and monitor three (3) dedicated monitoring wells. There are two proposed (2) downgradient wells and one (1) proposed upgradient well to be drilled near the evaporation basins, in accordance with the Division's guidance in WTS-4 Guidance Document for The Design and Construction of Groundwater Monitoring Wells.

**Compliance History**

This is a new permit; therefore, this section is not applicable.

**Proposed Effluent Limitations**

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

**Groundwater Monitoring Wells Table for Sample Location 005 (Upgradient Monitoring Well Mw-1)  
To Be Reported Annually**

| Discharge Limitations                     |               |               |                                 | Monitoring Requirements |            |                       |             |
|-------------------------------------------|---------------|---------------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                 | Base          | Quantity      | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Arsenic, dissolved (as As)                | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 005        | Annual                | DISCRT      |
| Hydrocarbons, total petroleum             | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 005        | Annual                | DISCRT      |
| Manganese, dissolved (as Mn)              | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 005        | Annual                | DISCRT      |
| pH                                        | Value         |               | M&R Standard Units (SU)         | Groundwater             | 005        | Annual                | DISCRT      |
| Solids, total dissolved                   | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 005        | Annual                | DISCRT      |
| Depth to water level ft below landsurface | Daily Minimum | M&R Feet (ft) |                                 | Groundwater             | 005        | Annual                | INSITU      |
| Water level relative to mean sea level    | Maximum       | M&R Feet (ft) |                                 | Groundwater             | 005        | Annual                | CALCTD      |

**Groundwater Monitoring Wells Table for Sample Location 006 (Downgradient Monitoring Well Mw-2) To Be Reported Annually**

| Discharge Limitations                     |               |               |                                 | Monitoring Requirements |            |                       |             |
|-------------------------------------------|---------------|---------------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                 | Base          | Quantity      | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Arsenic, dissolved (as As)                | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 006        | Annual                | DISCRT      |
| Hydrocarbons, total petroleum             | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 006        | Annual                | DISCRT      |
| Manganese, dissolved (as Mn)              | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 006        | Annual                | DISCRT      |
| pH                                        | Value         |               | M&R Standard Units (SU)         | Groundwater             | 006        | Annual                | DISCRT      |
| Solids, total dissolved                   | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 006        | Annual                | DISCRT      |
| Depth to water level ft below landsurface | Daily Minimum | M&R Feet (ft) |                                 | Groundwater             | 006        | Annual                | INSITU      |
| Water level relative to mean sea level    | Daily Maximum | M&R Feet (ft) |                                 | Groundwater             | 006        | Annual                | CALCTD      |

**Groundwater Monitoring Wells Table for Sample Location 007 (Downgradient Monitoring Well Mw-3) To Be Reported Annually**

| Discharge Limitations                     |               |               |                                 | Monitoring Requirements |            |                       |             |
|-------------------------------------------|---------------|---------------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                 | Base          | Quantity      | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Arsenic, dissolved (as As)                | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 007        | Annual                | DISCRT      |
| Hydrocarbons, total petroleum             | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 007        | Annual                | DISCRT      |
| Magnesium, dissolved (as Mg)              | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 007        | Annual                | DISCRT      |
| pH                                        | Value         |               | M&R Standard Units (SU)         | Groundwater             | 007        | Annual                | DISCRT      |
| Solids, total dissolved                   | Daily Maximum |               | M&R Milligrams per Liter (mg/L) | Groundwater             | 007        | Annual                | DISCRT      |
| Depth to water level ft below landsurface | Daily Minimum | M&R Feet (ft) |                                 | Groundwater             | 007        | Annual                | INSITU      |
| Water level relative to mean sea level    | Daily Maximum | M&R Feet (ft) |                                 | Groundwater             | 007        | Annual                | CALCTD      |

### Ponds / Rapid Infiltration Basins for Sample Location 001 (Northern Evaporation Basin) To Be Reported Monthly

| Discharge Limitations |                |                                 |               | Monitoring Requirements     |            |                       |             |
|-----------------------|----------------|---------------------------------|---------------|-----------------------------|------------|-----------------------|-------------|
| Parameter             | Base           | Quantity                        | Concentration | Monitoring Loc              | Sample Loc | Measurement Frequency | Sample Type |
| Flow rate             | Daily Maximum  | <= 2880 Gallons per Day (gal/d) |               | Effluent Gross              | 001        | Continuous            | METER       |
| Flow rate             | 30 Day Average | <= 864 Gallons per Day (gal/d)  |               | Effluent Gross              | 001        | Continuous            | METER       |
| Freeboard             | Minimum        | >= 2 Feet (ft)                  |               | See Footnote <sup>[1]</sup> | 001        | Monthly               | VISUAL      |

Notes (Ponds / Rapid Infiltration Basins):

1. Record staff gauge reading for Northern Basin.

**Ponds / Rapid Infiltration Basins for Sample Location 001 (Northern Evaporation Basin) To Be Reported Annually**

| Discharge Limitations                           |               |          |                                 | Monitoring Requirements |            |                       |             |
|-------------------------------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                       | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Alkalinity, bicarbonate (as CaCO <sub>3</sub> ) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Alkalinity, total (as CaCO <sub>3</sub> )       | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Aluminum, dissolved (as Al)                     | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Antimony, dissolved (as Sb)                     | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Arsenic, dissolved (as As)                      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Barium, dissolved (as Ba)                       | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Beryllium, dissolved (as Be)                    | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Cadmium, dissolved (as Cd)                      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Calcium, dissolved (as Ca)                      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Chloride (as Cl)                                | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Chromium, dissolved (as Cr)                     | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
|                                                 |               |          | M&R                             |                         |            |                       |             |

**Ponds / Rapid Infiltration Basins for Sample Location 001 (Northern Evaporation Basin) To Be Reported Annually**

| Discharge Limitations                    |               |          |                                 | Monitoring Requirements |            |                       |             |
|------------------------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Copper, dissolved (as Cu)                | Daily Maximum |          | Milligrams per Liter (mg/L)     | Effluent Gross          | 001        | Annual                | DISCRT      |
| Fluoride, total (as F)                   | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Iron, dissolved (as Fe)                  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Lead, dissolved (as Pb)                  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Magnesium, dissolved (as Mg)             | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Manganese, dissolved (as Mn)             | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Mercury, dissolved (as Hg)               | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Nitrite plus nitrate total 1 det. (as N) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Nitrogen, total                          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| pH                                       | Value         |          | M&R Standard Units (SU)         | Effluent Gross          | 001        | Annual                | DISCRT      |
| Potassium, dissolved (as K)              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Selenium, dissolved [as Se]              | Daily Maximum |          | M&R Milligrams per Liter        | Effluent Gross          | 001        | Annual                | DISCRT      |

**Ponds / Rapid Infiltration Basins for Sample Location 001 (Northern Evaporation Basin) To Be Reported Annually**

| Discharge Limitations                |               |          |                                 | Monitoring Requirements |            |                       |             |
|--------------------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                            | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
|                                      |               |          | (mg/L)                          |                         |            |                       |             |
| Silver, dissolved (as Ag)            | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Sodium, dissolved (as Na)            | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Sulfate, total (as SO <sub>4</sub> ) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Thallium, dissolved (as Tl)          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Solids, total dissolved              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Uranium, natural, total              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Cyanide, weak acid, dissociable      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Zinc, dissolved (as Zn)              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Hydrocarbons, total petroleum        | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |
| Oil & grease                         | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 001        | Annual                | DISCRT      |

### Ponds / Rapid Infiltration Basins for Sample Location 002 (Northern Leak Detection) To Be Reported Monthly

| Discharge Limitations |               |                                              |               | Monitoring Requirements     |            |                        |             |
|-----------------------|---------------|----------------------------------------------|---------------|-----------------------------|------------|------------------------|-------------|
| Parameter             | Base          | Quantity                                     | Concentration | Monitoring Loc              | Sample Loc | Measurement Frequency  | Sample Type |
| Liner Leakage Rate    | Daily Maximum | <= 500 Gallons per Acre per Day (gal/acre/d) |               | See Footnote <sup>[1]</sup> | 002        | Daily When Discharging | CALCTD      |

#### Notes (Ponds / Rapid Infiltration Basins):

1. Record reading from leak detection flow meter for Northern Basin.

**Ponds / Rapid Infiltration Basins for Sample Location 003 (Southern Evaporation Basin) To Be Reported Monthly**

| Discharge Limitations |                |                                     |               | Monitoring Requirements     |            |                       |             |
|-----------------------|----------------|-------------------------------------|---------------|-----------------------------|------------|-----------------------|-------------|
| Parameter             | Base           | Quantity                            | Concentration | Monitoring Loc              | Sample Loc | Measurement Frequency | Sample Type |
| Flow rate             | Daily Maximum  | $\leq 2880$ Gallons per Day (gal/d) |               | Effluent Gross              | 003        | Continuous            | METER       |
| Flow rate             | 30 Day Average | $\leq 864$ Gallons per Day (gal/d)  |               | Effluent Net                | 003        | Continuous            | METER       |
| Freeboard             | Minimum        | $\geq 2$ Feet (ft)                  |               | See Footnote <sup>[1]</sup> | 003        | Monthly               | VISUAL      |

**Notes (Ponds / Rapid Infiltration Basins):**

1. Record staff gauge reading for Southern Basin.

**Ponds / Rapid Infiltration Basins for Sample Location 003 (Southern Evaporation Basin) To Be Reported Annually**

| Discharge Limitations                           |               |          |                                 | Monitoring Requirements |            |                       |             |
|-------------------------------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                       | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Alkalinity, bicarbonate (as CaCO <sub>3</sub> ) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Alkalinity, total (as CaCO <sub>3</sub> )       | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Aluminum, dissolved (as Al)                     | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Antimony, dissolved (as Sb)                     | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Arsenic, dissolved (as As)                      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Barium, dissolved (as Ba)                       | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Beryllium, dissolved (as Be)                    | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Cadmium, dissolved (as Cd)                      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Calcium, dissolved (as Ca)                      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Chloride (as Cl)                                | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Chromium, dissolved (as Cr)                     | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
|                                                 |               |          | M&R                             |                         |            |                       |             |

**Ponds / Rapid Infiltration Basins for Sample Location 003 (Southern Evaporation Basin) To Be Reported Annually**

| Discharge Limitations                    |               |          |                                 | Monitoring Requirements |            |                       |             |
|------------------------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                                | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
| Copper, dissolved (as Cu)                | Daily Maximum |          | Milligrams per Liter (mg/L)     | Effluent Gross          | 003        | Annual                | DISCRT      |
| Fluoride, total (as F)                   | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Iron, dissolved (as Fe)                  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Lead, dissolved (as Pb)                  | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Magnesium, dissolved (as Mg)             | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Manganese, dissolved (as Mn)             | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Mercury, dissolved (as Hg)               | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Nitrite plus nitrate total 1 det. (as N) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Nitrogen, total                          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| pH                                       | Value         |          | M&R Standard Units (SU)         | Effluent Gross          | 003        | Annual                | DISCRT      |
| Potassium, dissolved (as K)              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Selenium, dissolved [as Se]              | Daily Maximum |          | M&R Milligrams per Liter        | Effluent Gross          | 003        | Annual                | DISCRT      |

**Ponds / Rapid Infiltration Basins for Sample Location 003 (Southern Evaporation Basin) To Be Reported Annually**

| Discharge Limitations                |               |          |                                 | Monitoring Requirements |            |                       |             |
|--------------------------------------|---------------|----------|---------------------------------|-------------------------|------------|-----------------------|-------------|
| Parameter                            | Base          | Quantity | Concentration                   | Monitoring Loc          | Sample Loc | Measurement Frequency | Sample Type |
|                                      |               |          | (mg/L)                          |                         |            |                       |             |
| Silver, dissolved (as Ag)            | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Sodium, dissolved (as Na)            | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Sulfate, total (as SO <sub>4</sub> ) | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Thallium, dissolved (as Tl)          | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Solids, total dissolved              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Uranium, natural, total              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Cyanide, weak acid, dissociable      | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Zinc, dissolved (as Zn)              | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Hydrocarbons, total petroleum        | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |
| Oil & grease                         | Daily Maximum |          | M&R Milligrams per Liter (mg/L) | Effluent Gross          | 003        | Annual                | DISCRT      |

## Ponds / Rapid Infiltration Basins for Sample Location 004 (Southern Leak Detection) To Be Reported Monthly

| Discharge Limitations |               |                                              |               | Monitoring Requirements     |            |                        |             |
|-----------------------|---------------|----------------------------------------------|---------------|-----------------------------|------------|------------------------|-------------|
| Parameter             | Base          | Quantity                                     | Concentration | Monitoring Loc              | Sample Loc | Measurement Frequency  | Sample Type |
| Liner Leakage Rate    | Daily Maximum | <= 500 Gallons per Acre per Day (gal/acre/d) |               | See Footnote <sup>[1]</sup> | 004        | Daily When Discharging | CALCTD      |

Notes (Ponds / Rapid Infiltration Basins):

1. Record reading from leak detection flow meter for Southern Basin.

### Summary of Changes From Previous Permit

This is a new permit; therefore, this section is not applicable.

### Technology Based Effluent Limitations

Technology based effluent limitations are not applicable to this permit.

### Water Quality Based Effluent Limitations

Water quality based effluent limitations are not applicable to this permit.

### Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)

Water quality based effluent limitations are not applicable to this permit.

### Basis for Effluent Limitations

There are currently no specific water quality standards that have been formally adopted by the State for groundwater. However, the Division has the discretion to implement effluent limitations outside water quality standards per NAC 445A.243, which states, "In establishing an effluent limitation to carry out the policy of this State set forth in Nevada Revised Statutes (NRS) 445A.305, consideration must be given to, but is not limited by, the following: ... (2) the need for standards that specify by chemical, physical, biological or other characteristics the extent to which pollution by various substances will not be tolerated." The constituents listed in Profile 1 have been vetted by the Division and have been included in groundwater discharge permits for many years as a means of regulating groundwater quality. Per NRS 445A.490, "No permit may be issued which authorizes any discharge or injection of fluids through a well into any waters of the State: (3) which would result in the degradation of existing or potential underground sources of drinking water." The requirement to monitor the effluent for Profile I pollutants once per year is included to evaluate the quality of the effluent and determine whether the effluent has potential to impact the receiving water. Although cyanide and uranium are not expected to be present in the effluent, the proposed permit requires the Permittee sample these constituents once during the permit term as they are included in the Profile 1 list and they have not been sampled before.

The Freeboard minimum value greater than or equal to two (2) feet is due to the designed volume of the basins being approximately 0.325 acres, to prevent overtopping and causing hazardous conditions to reduce the potential contamination to the groundwater.

The Daily Maximum Flow is limited to less than or equal to two (2) gallons per minute, or 2,880 gallons per day, at the request of the Permittee.

The 30-day Average is limited to less than or equal to 0.60 gallons per minute, or 864 gallons per day, at the request of the Permittee.

Effluent monitoring for TPH is included to assess and ensure water quality in the event of a liner failure.

The requirement for leak detection monitoring is to assess the operational status of the liners.

Effluent monitoring for Oil and Grease is included to assess and ensure water quality in the event of a liner failure and has a regulated pollutant of under the North American Industry Classification System (NAICS) 324121: Asphalt Paving Mixture and Block Manufacturing company.

**Anti-backsliding**

This is a new permit; therefore, this section is not applicable.

**Antidegradation**

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada’s water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division’s antidegradation regulation is to prevent degradation of Nevada’s surface waters and maintain the unique attributes and special characteristics and water quality associated with high quality waters.

As this permit is for discharges to groundwater, and not surface water, the new antidegradation rule is not applicable.

**Special Conditions**

There are no Special Approval / Condition items:

SA – Special Approvals / Conditions Table

| Item # | Description                                                                                                        |
|--------|--------------------------------------------------------------------------------------------------------------------|
| 1      | The Permittee shall maintain a minimum freeboard of two (2) feet, as the ponds are less than one (1) acre in size. |

**Discharges From Future Outfalls/ Planned Facility Changes**

This is a new permit; the Permittee does not anticipate any changes during this permit cycle.

**Corrective Action Sites**

There are no active Bureau of Corrective Action sites located within a one-mile radius of the plant.

**Wellhead Protection Program**

The outfalls are not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a public water system (PWS) well.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

| Item # | Description                                                                                                                                                                                                                                                                                                                                                                                                                                      | Due Date   |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1      | The Permittee shall submit two copies (one hard copy and one electronic copy) of an Operations and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall follow the Division's guidance document, WTS-2 Minimum Information Required for an Operation and Maintenance Manual be prepared and wet-stamped by a licensed, qualified Nevada engineer (P.E.).                                                       | 11/15/2026 |
| 2      | The Permittee shall submit to the Division, for review and approval, a Monitoring Well Design for three (3) dedicated monitoring wells. The well locations are to be two (2) downgradient and one (1) upgradient of the proposed evaporation basins in accordance with the Division's guidance WTS-4 Guidance Document for The Design and Construction of Groundwater Monitoring Wells, within 90-days from the date of issuance of this permit. | 11/15/2026 |

**Deliverable Schedule:**

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

| Item # | Description      | Interval  | First Scheduled Due Date |
|--------|------------------|-----------|--------------------------|
| 1      | Quarterly Report | Quarterly | 10/28/2026               |
| 2      | Annual Report    | Annually  | 1/28/2027                |

**Procedures for Public Comment:**

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being mailed to interested persons on our mailing list and will be posted on our website at <https://ndep.nv.gov/posts>. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **9/7/2026**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

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

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

**Proposed Determination:**

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

Prepared by: **Jason Reichelt**

Date: **8/5/2026**

Title: **Environmental Scientist 3**