NEVADA DIVISION OF
ENVIRONMENTAL
PROTECTION

A division of the
Nevada Department of Conservation & Natural Resources

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FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: NV ENERGY

6226 WEST SAHARA AVENUE M/S 25
LAS VEGAS, NV 89146

Permit Number: NS0094000

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: HARRY ALLEN GENERATING STATION, CLARK
14601 N. LAS VEGAS BOULEVARD, LAS VEGAS, NV 89124
LATITUDE: 36.401164, LONGITUDE: -114.880254
TOWNSHIP: 17S, RANGE: 63E, SECTION: 25, 35, 36

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	EVAPORATION POND #1	External Outfall		36.431211	-114.898558	GROUNDWATER
002	EVAPORATION POND #2	External Outfall		36.43063050	-114.897868	GROUNDWATER
LD1	POND #1 LEAK DETECTION	Internal Outfall		36.431098	-114.898624	NOT APPLICABLE
LD2	POND #2 LEAK DETECTION	Internal Outfall		36.430474	-114.897991	NOT APPLICABLE
SUM	SUM OF EVAPORATION POND #1 & EVAPORATION POND #2	External Outfall		36.431211	-114.898558	NOT APPLICABLE

Permit History/Description of Proposed Action

The Permittee, NV Energy, has applied for the renewal of Permit NS0094000 for the Harry Allen Generating Station (GS), at 14601 Las Vegas Boulevard North, in Las Vegas, within Clark County, Nevada. The Permittee proposes to continue discharging process wastewater to two evaporation ponds, double-lined high-density polyethylene (HDPE), with located onsite.

This permit was first issued May 8, 1996. The most recent permit was issued on November 1, 2020, and expired on October 31, 2025; the permit has been administratively continued since.

Facility Overview

The Harry Allen GS was built in 1994, with process wastewater from the Harry Allen GS being discharged into two double-lined evaporation ponds, each with a capacity of 17-acre feet, or 5.5 million gallons, and designed with 2-feet of freeboard and for zero discharge, along with not having any spillways.

Process water is piped to the Harry Allen GS, via a 12-inch pipeline, from both a well located in Dry Lake

Valley and Chuck Lenzie Wells 1 and 2 (located at the Chuck Lenzie GS). The water is used at the Harry Allen GS for makeup water for evaporative coolers used to pre-cool the air entering the gas turbines, cooling water for the auxiliary cooling tower, and boiler water makeup. The recycled water, from these processes, undergoes enhanced recovery water treatment with chemicals to control biological growth, scaling, and corrosion during use in the cooling towers, inlet chillers, and evaporative cooler. Afterward, the process wastewater is discharged into the onsite evaporation ponds. Any domestic sewage generated at the facility is discharged into a separate, onsite septic system.

The Harry Allen GS is authorized to transfer water from their onsite evaporation ponds to either the evaporation ponds at the Chuck Lenzie GS (see permit NS2001517) or the Silverhawk GS (see permit NS2003501).

The Harry Allen GS's Operation and Maintenance (O&M) Manual was last reviewed and approved on January 9, 2024. The Technical, Compliance, and Enforcement Branch of the Bureau of Water Pollution Control requires O&M Manuals to be updated every ten (10) years, with an updated O&M Manual due on January 9, 2034.

Outfall Summary
Outfall 001 - This external outfall is for measuring and monitoring wastewater discharged to Evaporation Pond #1.

Outfall 002 - This external outfall is for measuring and monitoring wastewater discharge to Evaporation Pond #2.

Outfall LD1 - This internal outfall is for measuring any leakage from the liner of Evaporation Pond #1.

Outfall LD2 - This internal outfall is for measuring any leakage from the liner of Evaporation Pond #2.

Outfall SUM - This Sum outfall is for measuring the total flow rate discharged from Outfalls 001 and 002.

Effluent Characterization
Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from January 2021 to December 2025, was reviewed as part of this permit renewal process. The Harry Allen GS discharges process wastewater to two lined evaporation ponds.

The following reported averages were taken from January 2021 to December 2025 reporting period:

Abbreviations:
TDS – Total Dissolved Solids
TPH – Total Petroleum Hydrocarbons
mg/L – Milligrams per Liter
Mgal/d – Million Gallons per Day
S.U. – Standard Units

Outfall 001 (Evaporation Pond #1):
Flow Rate: 0.015 Mgal/d
Freeboard: 19.02 Feet
Liner Leakage: No Discharge
Arsenic: 0.11 mg/L
Chromium: 0.13 mg/L*
Oil and grease: 12.27*
pH: 8.06 S.U.
Selenium: 0.03 mg/L*
TDS: 217,859 mg/L
Thallium: 0.01 mg/L

TPH: 4.62 mg/L

Outfall 002 (Evaporation Pond #2)
Flow Rate: 0.018 Mgal/d
Freeboard: 19.28 Feet
Liner Leakage: No discharge
Antimony: 0.02 mg/L*
Arsenic: 0.12 mg/L
Nickel: 0.03 mg/L
Oil and grease: 17.51 mg/L*
pH: 8.11 S.U.
Selenium: 0.02 mg/L
TDS: 188,400 mg/L
TPH: 5.46 mg/L
Zinc: 0.25 mg/L*

Outfall LD1-A (Leakage Liner for Evaporation Pond #1):
Flow Rate: No discharge

Outfall LD2-A (Leakage Liner for Evaporation Pond #2):
Flow Rate: No discharge

Outfall SUM (for Outfalls 001 and 002):
Flow Rate: 0.033 Mgal/d

*With most of the reported periods being below detection.

For Outfall 001, the following parameters were below detection during the period reviewed – Antimony, Beryllium, Cadmium, Copper, Lead, Mercury, Nickel, Silver, and Zinc.

For Outfall 002, the following parameters were below detection during the period reviewed – Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Silver, and Thallium.

Pollutants of Concern
Pollutants of concern are any pollutants or parameters that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological condition of the receiving water. Common pollutants of concern for process wastewater are Oil & grease, Specific conductance, TPH, and Profile 1 analytes.

Receiving Water
Although the double-lined evaporation ponds are designed to prevent any discharges, the potential receiving water, in the event of a catastrophic failure, is groundwater of the State. The groundwater table in the area is reported to be about 350 feet below ground surface (bgs).

Compliance History
The Permittee is in compliance with the permit requirements with the exception of sporadic non-reporting through the NetDMR database.

Proposed Effluent Limitations
The proposed discharges shall be limited, monitored, and recorded as outlined in the following tables:

NS OTHER - Discharge Limitations Table for Sample Location Ld1 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Monthly Average	<= 1500 Gallons per Day (gal/d) [1]		See Footnote[2]	LD1	Continuous	METER

Notes (NS OTHER - Discharge Limitations Table):

1. Based on 500 gallons per acre per day for a 3-acre pond.
2. Report flow pumped from leak detection sump for Pond 1.

NS OTHER - Discharge Limitations Table for Sample Location Ld2 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Monthly Average	<= 1500 Gallons per Day (gal/d) [1]		See Footnote[2]	LD2	Continuous	CALCTD

Notes (NS OTHER - Discharge Limitations Table):

1. Based on 500 gallons per acre per day for a 3-acre pond.
2. Report flow pumped from leak detection sump for Pond 2.

Ponds / Rapid Infiltration Basins for Sample Location 001 (Evaporation Pond #1) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Freeboard	Daily Minimum	>= 2 Feet (ft)		Internal Monitoring Point	001	Monthly	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location 001 (Evaporation Pond #1) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT
Oil & grease	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT
Specific conductance	Daily Maximum		M&R Conductance-Micromhos per cm (uS/cm)	Effluent Gross	001	Quarterly	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location 001 (Evaporation Pond #1) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Alkalinity, bicarbonate (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
Alkalinity, total (as CaCO3)	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 (Evaporation Pond #1) 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)[1]	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
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 (mg/L)	Effluent Gross	001	Annual	DISCRT
			M&R				

Ponds / Rapid Infiltration Basins for Sample Location 001 (Evaporation Pond #1) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Silver, dissolved (as Ag)	Daily Maximum		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 SO4)	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
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

Notes (Ponds / Rapid Infiltration Basins):

1. Sampling and analysis shall be conducted on the dissolved fraction.

Ponds / Rapid Infiltration Basins for Sample Location 002 (Evaporation Pond #2) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	002	Continuous	METER
Freeboard	Daily Minimum	>= 2 Feet (ft)		Internal Monitoring Point	002	Continuous	VISUAL

Ponds / Rapid Infiltration Basins for Sample Location 002 (Evaporation Pond #2) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Hydrocarbons, total petroleum	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Oil & grease	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Effluent Gross	002	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Quarterly	DISCRT
Specific conductance	Daily Maximum		M&R Conductance-Micromhos per cm (uS/cm)	Effluent Gross	002	Quarterly	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location 002 (Evaporation Pond #2) To Be Reported Annually

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Alkalinity, bicarbonate (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Aluminum, dissolved (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Antimony, dissolved (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Arsenic, dissolved (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Barium, dissolved (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Beryllium, dissolved (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Cadmium, dissolved (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Calcium, dissolved (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Chromium, dissolved (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
			M&R				

Ponds / Rapid Infiltration Basins for Sample Location 002 (Evaporation Pond #2) 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	002	Annual	DISCRT
Fluoride, total (as F)[1]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Iron, dissolved (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Lead, dissolved (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Magnesium, dissolved (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Manganese, dissolved (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Mercury, dissolved (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Potassium, dissolved (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Selenium, dissolved [as Se]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
			M&R				

Ponds / Rapid Infiltration Basins for Sample Location 002 (Evaporation Pond #2) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Silver, dissolved (as Ag)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Sodium, dissolved (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Thallium, dissolved (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT
Zinc, dissolved (as Zn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	002	Annual	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. Sampling and analysis shall be conducted on the dissolved fraction.

Ponds / Rapid Infiltration Basins for Sample Location Sum (Sum Of Pond #1 & Pond #2) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	<= 0.452 Million Gallons per Day (Mgal/d)		Effluent Gross	SUM	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	SUM	Continuous	METER

Summary of Changes From Previous Permit
CHANGED – Coordinates for Facility to turnoff of N. Las Vegas Boulevard.

Now: Lat. 36.4011640, Long. -114.8802542

CHANGED – Coordinates for Evaporation Pond #2 to actual location.

Now: Lat. 36.4306305, Long. -114.897868

Under Outfall 001, To Be Reported Quarterly, the following changes were made:

Moved parameters from "ZD - Zero Discharge Limitations Table" under Permit to "Ponds / Rapid Infiltration Basins", to match other monitoring periods and associated parameter table locations under the permit (monthly and annual).

CHANGED – Liner Leakage Rate, with a Daily Maximum Base, from a “Discrt” Sample Type to a “Meter” Sample Type. The remaining monitoring requirements were unchanged from the previous permit.

ADDED – Reservoir Storage, with an “Average” Base, a “M&R Millon Gallons (Mgal)” Quantity Unit, an “Effluent Gross” Monitoring Location, a “001” Sample Location, a “Twice per Month” Measurement Frequency, and a “Calctd” Sample Type. This parameter was added to be consistent with current Division reporting requirements for process wastewater evaporation ponds.

ADDED – Specific conductance, with an “Daily Maximum” Base, a “M&R Conductance-Micromhos per cm (u*S*/cm)” Concentration, an “Effluent Gross” Monitoring Location, a “001” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type. This parameter was added to be consistent with current Division reporting requirements for process wastewater evaporation ponds.

Under Outfall 001, To Be Reported Annually, the following changes were made:

CHANGED – Heavy Metals, with a “Daily Maximum” Base, to a “Profile 1 Dissolved” Parameter list, with a “Daily Maximum” Base, a “M&R Milligrams per Liter” Concentration, an “Effluent Gross” Monitoring Location, a “001” Sample Location, an “Annual” Measurement Frequency, and a “Discrt” Sample Type. This was updated based on current Division reporting requirements.

ADDED – Footnote 1.
1. Sampling and analysis shall be conducted on the dissolved fraction.

Under Outfall 002, To Be Reported Quarterly, the following changes were made:

Moved parameters from "ZD - Zero Discharge Limitations Table" under Permit to "Ponds / Rapid Infiltration Basins", to match other monitoring periods and associated parameter table locations under the permit (monthly and annual).

CHANGED – Liner Leakage Rate, with a Daily Maximum Base, from a “Discrt” Sample Type to a “Meter” Sample Type. The remaining monitoring requirements were unchanged from the previous permit.

ADDED – Reservoir Storage, with an “Average” Base, a “M&R Millon Gallons (Mgal)” Quantity Unit, an “Effluent Gross” Monitoring Location, a “002” Sample Location, a “Twice per Month” Measurement Frequency, and a “Calctd” Sample Type. This parameter was added to be consistent with current Division reporting requirements for process wastewater evaporation ponds.

ADDED – Specific conductance, with an “Daily Maximum” Base, a “M&R Conductance-Micromhos per cm (uS/cm)” Concentration, an “Effluent Gross” Monitoring Location, a “002” Sample Location, a “Quarterly” Measurement Frequency, and a “Discrt” Sample Type. This parameter was added to be consistent with current Division reporting requirements for process wastewater evaporation ponds.

Under Outfall 002, To Be Reported Annually, the following changes were made:

CHANGED – Heavy Metals, with a “Daily Maximum” Base, to a “Profile 1 Dissolved” Parameter list, with a “Daily Maximum” Base, a “M&R Milligrams per Liter” Concentration, an “Effluent Gross” Monitoring Location, a “002” Sample Location, an “Annual” Measurement Frequency, and a “Discrt” Sample Type. This was updated based on current Division reporting requirements.

ADDED – Footnote 1.
1. Sampling and analysis shall be conducted on the dissolved fraction.

Under SOC – Schedule of Compliance Table the following item was deleted:

DELETED – Item 1. O&M Manual submittal requirement.

Under SA – Special Approvals / Conditions Table the following item was deleted:

DELETED - Item 3. Ability to discharge to Silverhawk Generation Station.

DELETED – Item 4. Electronic submittal requirement.

CHANGED - Item 2.

FROM:

2. The Permittee is authorized to transfer water between evaporation ponds at the Harry Allen Station and evaporation ponds at the CHuck Lenzie Generating Station.

TO:
2. The Permittee is authorized to transfer process wastewater to either the evaporation ponds at the Chuck Lenzie Generating Station or the Silver Hawk Generating Station.

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 Nevada Administrative Code (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 the parameters of concern 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 1 analytes annually has been maintained, and revised to match current Profile 1 analytes, to continue to evaluate the quality of the effluent and determine whether the effluent has potential to impact the receiving water.

Freeboard: The Division requires that a visual confirmation of the amount of freeboard (in feet) be done to deter any overtopping issues.

Leak Detection Systems: based on information received from the Permittee, the leak detection system operates continuously by removing any leaked volume and recirculating it back into the receiving pond.

Oil & grease: The requirement to sample oil & grease has been maintained due to its ability to cause system damage, may have toxic heavy metals and benzene (which is of concern if there is a failure or leak and the wastewater reaches the groundwater).

The requirement to sample pH has been maintained, with a standard unit (S.U.) limit variation of 6.5 S.U. to 9.0 S.U., which can eliminate, or sharply reduce, hazardous acid handling at the plant. The use of advanced high-performance antiscalants and polymer-based crystal modifiers allow cooling water systems to safely operate at those higher limits, without inducing calcium carbonate precipitation also.

Specific conductance: Is a general measure of a material's, or solution's, ability to conduct electricity, adjusted or normalized to a specific standard temperature. While specific conductance itself isn't directly a pollutant, it can be a useful indicator of potential water pollution or contamination. High specific conductance in the groundwater surrounding the Harry Allen Generating Station can indicate the presence of dissolved minerals and ions, which can be detrimental to aquatic ecosystems and make the water unsuitable for human consumption or other uses.

The requirement to sample for TDS has been maintained for human health and environment. High levels of TDS can cause gastrointestinal distress, sodium overload (for individuals with high blood pressure or medical restricted low-sodium diets), and degrade drinking water. Environmental issues include crop damage and affected plant growth due to soil salinization. A 10,000 mg/L limit for nonprocess cooling water in a power generating station marks the operational boundary between brackish water and saline water.

The proposed permit retains the requirement to sample TPH which is a mixture of chemicals found in crude oil and petroleum products like gasoline, diesel, and motor oil. Due to the facility being a known active BCA remediation site, that had a release of gasoline, and the constituent previously detected in the discharge. Continued monitoring is required, even if the levels have been non-detect during the past five years, with a monthly sampling requirement.

Anti-backsliding

None of the proposed permit limits were changed to a less restrictive limit compared to those in the previous permit.

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 evaporation ponds, and not groundwater or surface water, the new antidegradation rule is not applicable.

Special Conditions
See the Special Approvals / Conditions Table under the permit:

SA – Special Approvals / Conditions Table

Item #	Description
1	The freeboard requirement for the ponds is 2 feet in accordance with calculations approved by NDEP.
2	The Permittee is authorized to transfer process wastewater to either the evaporation ponds at the Chuck Lenzie Generating Station or the Silver Hawk Generating Station.

Discharges From Future Outfalls/ Planned Facility Changes
There are no planned future outfalls or facility changes.

Corrective Action Sites
There are no active Bureau of Corrective Actions (BCA) remediation sites within a one-mile radius of the facility.

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

There are no Schedule of Compliance items

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Report	Quarterly	4/28/2027
2	Annual Report	Annually	1/28/2028

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. **12/5/2026,** a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

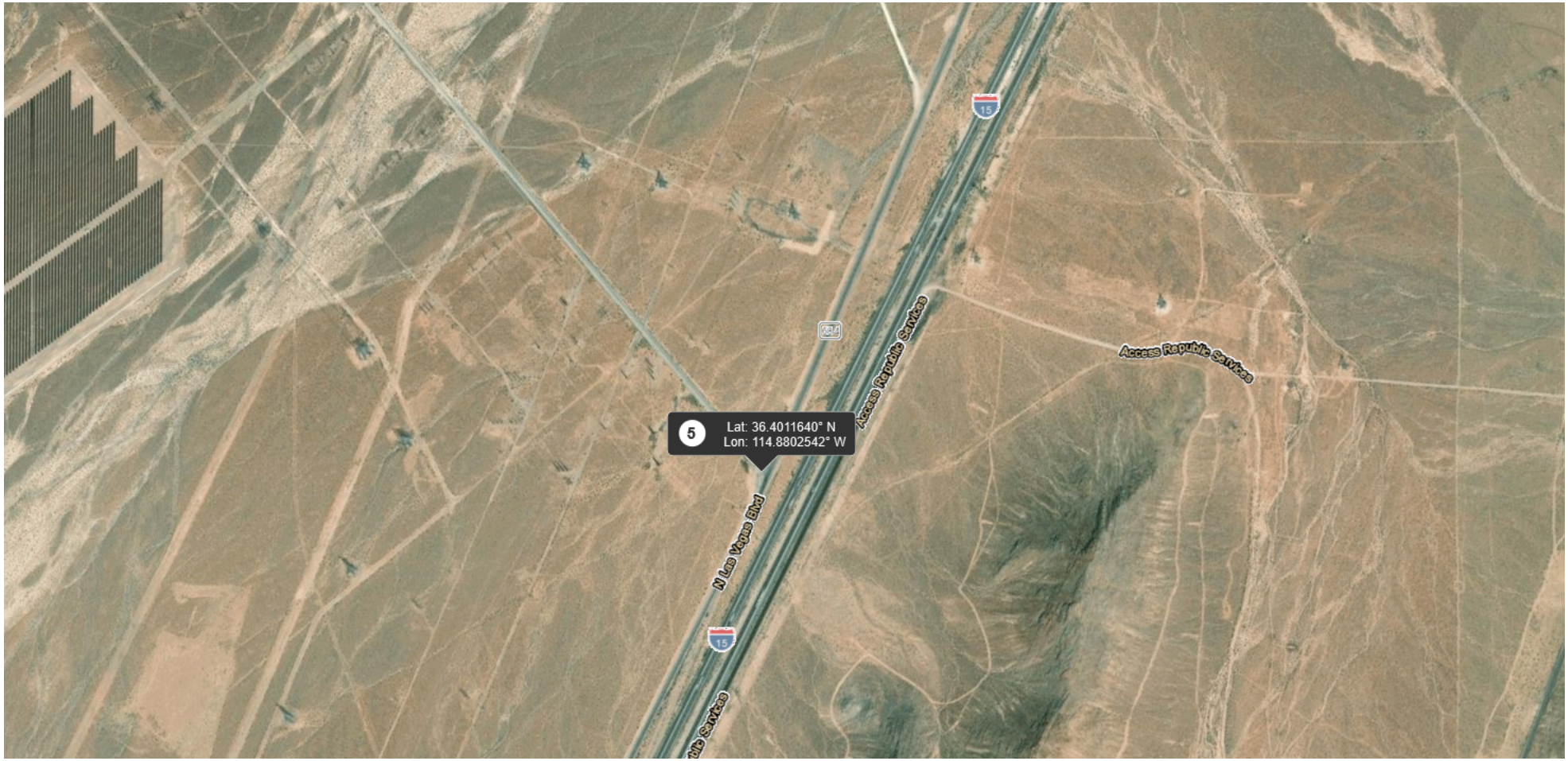
A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate 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.

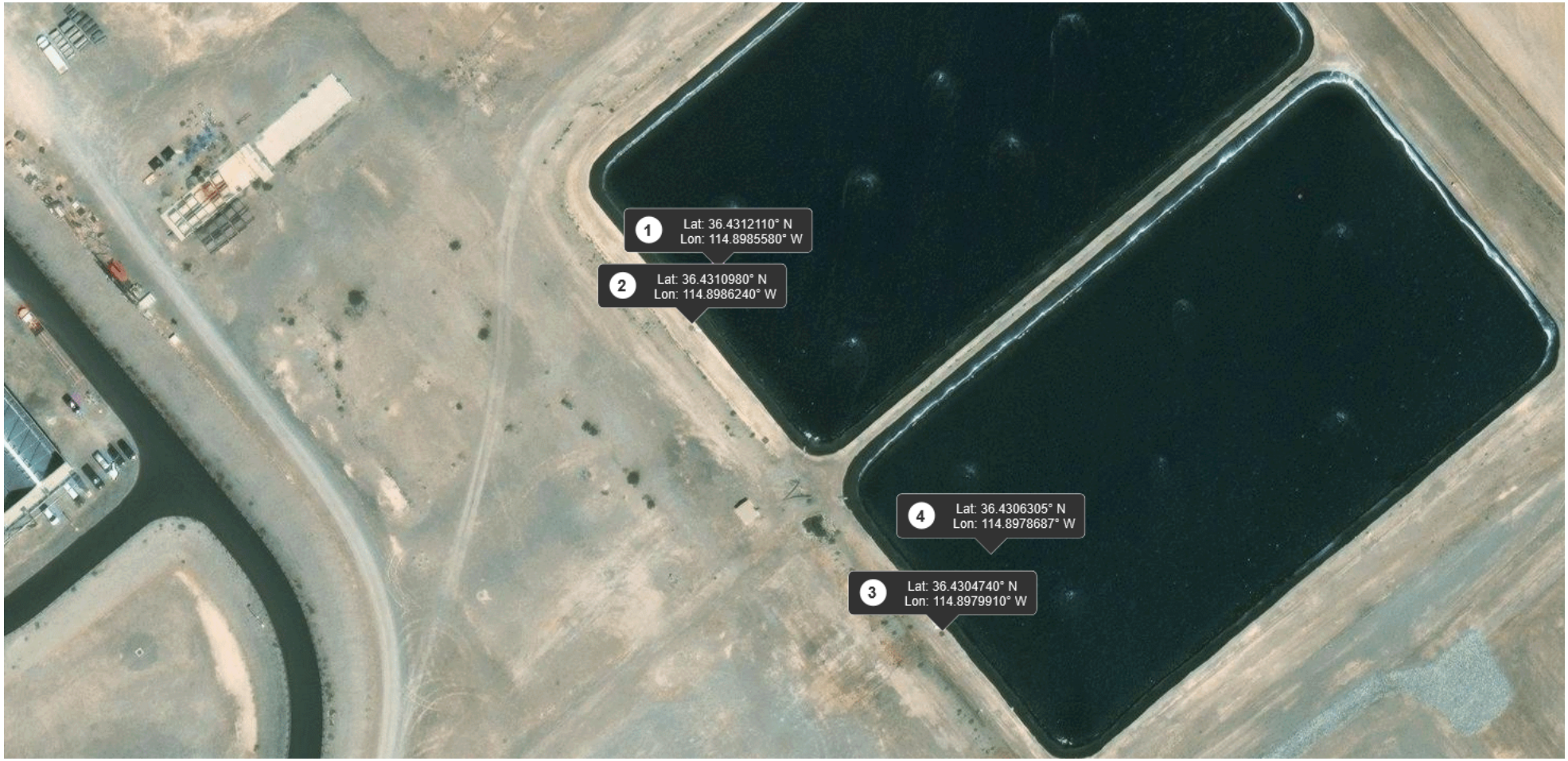
Proposed Determination:

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

Prepared by: **Melissa Hanson**
Date: **10/29/2026**
Title: **Staff II Engineer**



Turn off to the Harry Allen Generating Station



Pond and Pond Liner Outfall Locations