FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: NEVADA CEMENT COMPANY

1290 W. MAIN ST
FERNLEY, NV 89408

Permit Number: NS0092007

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: NEVADA CEMENT COMPANY, LYON
1290 W. MAIN ST, FERNLEY, NV 89408
LATITUDE: 39.621944, LONGITUDE: -119.263056
TOWNSHIP: 20 N, RANGE: 24 E, SECTION: 2, 3, 10 & 11

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	EFFLUENT	External Outfall		39.621365	-119.264426	GROUNDWATER
002	MONITORING WELL # 1	Monitoring Well		39.6190	-119.2630	GROUNDWATER

Permit History/Description of Proposed Action
The Permittee, Nevada Cement Company has applied for a permit renewal of the existing permit NS0092007. Water from an onsite well will be used to cool equipment in the facility during the production of Portland Cement and Pozzolan. Pozzolan is an additive for strengthening cement. The cooling water is circulated through a non-contact system and is only altered by evaporation before being discharged to an onsite earthen basin.

This permit was first issued on August 15, 1994. The most recent permit was issued on August 1, 2018, and expired on July 31, 2023; the permit has been administratively continued since.

Facility Overview
Nevada Cement Company is located northeast of I-80, off of Exit 46 in Fernley. Water sourced from two onsite wells is used for cooling various equipment in the facility. The water is circulated through internal cooling system tubing that does not allow the water to come into direct contact with oil, grease, or process materials in the equipment. Discharge water is sent to a cooling tower to lower the temperature prior to being discharged to a natural holding basin.

The Operation and Maintenance (O&M) Manual was received September 30, 2019 and an updated O&M is required by September 30, 2029, the Permittee is required to provide an updated O&M every 10 years. An O&M will be required during the term of the permit.

Outfall Summary
Outfall 001: is an external outfall monitored quarterly for Total Dissolved Solids (TDS), and pH, and monthly

for the rate of flow.

Outfall 002: is an external outfall monitoring well that is monitored annually for, Profile 1 metals, Boron, total (as B), Hardness, total (as CaCO3), Calcium, total (as Ca), Oil and grease, Maximum pH, Minimum pH measured in Standard Units (S.U.), and TDS. This Outfall discharges to an earthen pond.

Effluent Characterization
The effluent discharged by the facility has elevated mineral characteristics compared to the source water, due to the evaporation. The sampled elevated minerals are listed in the Outfall Summary above.

The 5-year averages for 2020-2025 are reported bellow:

External Outfall 001: Effluent
The average flow rate: 0.49 Million Gallons per Day (Mgal/d)
Oil and Grease: 2.86 mg/L
Max pH: 8.17 S.U.
Min pH: 8.11 S.U.
TDS: 522.67 mg/L

External Outfall 2: Monitoring Well #1
Depth to water: 124 feet
Oil and Grease: 2.80 mg/L
Max pH: 8.08 S.U.
Min pH: 8.07 S.U.
TDS: 538 mg/L

Pollutants of Concern
Pollutants of concern are any pollutants or parameters that are believed to be present in the discharge and could affect the physical, chemical, or biological condition of the receiving water. Common pollutants of concern for cooling water discharged from the facility includes arsenic, which is naturally occurring in the source water, and oil and grease which can be present if there is a failure of the circulating system.

Receiving Water
Spent cooling water is discharged to groundwater of the State. The groundwater gradient is trending to the northwest. The receiving water is monitored by one monitoring well sampled for arsenic, copper, iron, manganese, zinc, sulfate, nitrate, nitrite, chloride, etc. The groundwater has not been degraded by non-contact cooling water discharge. Elevated arsenic concentration in the groundwater is common in the area with background concentrations at 0.069 mg/L; U.S. EPA primary drinking water standard is 0.01 mg/L.

Compliance History
The Permittee is in compliance with the permit.

Proposed Effluent Limitations
The discharge shall be limited, sampled, and monitored by the Permittee as specified below:

Groundwater Monitoring Wells Table for Sample Location 002 (Monitoring Well #1) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
pH, minimum	Minimum Value		>= 6.0 Standard Units (SU)	Groundwater	002	Annual	DISCRT
pH, maximum	Maximum Value		<= 9.0 Standard Units (SU)	Groundwater	002	Annual	DISCRT
Oil & grease	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Hardness, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Copper, total (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter	Groundwater	002	Annual	DISCRT

Groundwater Monitoring Wells Table for Sample Location 002 (Monitoring Well #1) To Be Reported Annually

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
			(mg/L)				
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	002	Annual	DISCRT
Depth to water level ft below landsurface[1]	Daily Minimum	M&R Feet (ft)		Groundwater	002	Annual	DISCRT
Water level relative to mean sea level[2]	Daily Maximum	M&R Feet (ft)		Groundwater	002	Annual	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to Groundwater (feet).
2. Groundwater Elevation (AMSL).

NS OTHER - Discharge Limitations Table for Sample Location 001 (Effluent) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	< 2.00 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	DISCRT
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	DISCRT

NS OTHER - Discharge Limitations Table for Sample Location 001 (Effluent) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Effluent Gross	001	Quarterly	DISCRT
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	001	Quarterly	DISCRT

Ponds / Rapid Infiltration Basins for Sample Location 001 (Effluent) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Hardness, total (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
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
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
Copper, dissolved (as Cu)	Daily Maximum		M&R 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
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
			M&R				

Ponds / Rapid Infiltration Basins for Sample Location 001 (Effluent) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	001	Annual	DISCRT
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Effluent Gross	001	Annual	DISCRT
pH, minimum	Daily Minimum		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
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
Solids, total dissolved	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

Summary of Changes From Previous Permit

*During the period of the last permit a major modification was completed January 2020, the changes to the permit are listed below:

*The flow limit for the effluent was increased from 0.72 Mgal/d to 2 Mgal/d.

*The requirement to monitor the depth to water was added to Outfall 002 Monitoring Well #1.

*The TDS limit was changed to 1,000 mg/L for effluent discharge.

*Sections A-C "Boiler-plate" language was updated.

*The requirement to sample Outfall 003 source well water has been removed due to the data required to assess the source water quality has been acquired and further sampling is no longer necessary at this time.

*30-day average flow rate parameter has been added to Outfall 001 to bring this permit into conformance with current permit standards.

*The requirement to sample for NDEP Profile 1 parameters that have been consistently non-detect or under the limits of the NDEP Profile 1 reference values has been removed from Outfall 2 Monitoring Well #1.

Technology Based Effluent Limitations
Technology based effluent limitations are not applicable on 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 limitations are not applicable to this permit.

Basis for Effluent Limitations
The flow is limited to 2 Mgal/d at the request of the Permittee.

The TDS is limited to 1,000 mg/L to protect groundwater and is based on drinking water standards.

Monitoring is required to assess the quality of non-contact cooling tower blowdown and to protect the local groundwater quality.

Anti-backsliding
The removal of the requirement to sample Outfall 3 source well water does not change the proposed permit to be a less restrictive limit compared to those in the previous permit, because the Bureau of Water Pollution does not regulate the source water.

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
For Special Conditions see table below:

SA – Special Approvals / Conditions Table

Item #	Description
1	The Permittee shall continue to submit their Discharge Monitoring Reports (DMRs) through the Bureau of Water Pollution Control's NetDMR system.

Discharges From Future Outfalls/ Planned Facility Changes
This Permittee does not anticipate changes to the outfalls or to the facilities.

Corrective Action Sites
There is one active Bureau of Corrective Actions remediation site located within one mile of the Nevada Cement company facility. The remediation site (Facility ID 3-000171) is for diesel contamination located approximately 0.28 miles southwest of the facility.

Wellhead Protection Program

The nearest Public Water Supply (PWS) wells are located approximately 2,800 feet southwest and 5,900 feet southeast of the discharge point, the two PWS wells are up gradient of the discharge point and are screened within a confined aquifer. Both wells (W05 and W06) are owned by the City of Fernley (NV0000062). The facility is within the 3,000 foot radius Drinking Water Protection Area for W05. The facility is not within any Wellhead Protection Areas. The permitted discharge will most likely not affect any PWS because of the confined aquifer, the groundwater gradient, and the distances from the wells.

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 updated Operation and Maintenance (O&M) Manual to the Division. The O&M shall be prepared and stamped by a Nevada Registered Professional Engineer or other Qualified Person.	9/30/2029

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2026
2	Annual DMRs	Annually	1/28/2026

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. **2/14/2026,** 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: **1/13/2026**
Title: **Environmental Scientist 3**