FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: KIEWIT POWER CONSTRUCTORS

8900 RENNER BLVD.
LENEXA, KS 66219

Permit Number: NS2025512

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: NEW

Location: SIERRA SOLAR PHASE I, CHURCHILL
12550 SAGEHEN CREEK ROAD, FALLON, NV 89406
LATITUDE: 39.858882, LONGITUDE: -119.041207
TOWNSHIP: 23N, RANGE: 26E, SECTION: 3,6,11,15

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
DC1	DUST CONTROL	External Outfall		39.86047270	-119.041896	GROUNDWATER
WW1	WORKING IN WATERWAY 1	External Outfall		39.860473	-119.041897	GROUNDWATER

Permit History/Description of Proposed Action

This is a new permit. The Permittee, Kiewit Power Constructors, had applied for groundwater discharge permit NS2025512. The Permittee proposes to construct and operate the Sierra Solar Phase 1 Project. Non-potable water for dust suppression during construction will be obtained from a permitted groundwater well near Fernley, Nevada.

The site was previously approved for initial site mobilization and dust control under two temporary groundwater discharge permits (TNS-54739 and TNS-55323), issued primarily for early site mobilization and as a secondary source for dust control. In addition, two temporary Working in Waterways permits (NVW-55325 and NVW-54447) were issued for access road construction and waterway crossings.

The Permittee now seeks an individual permit to cover the full three year duration of the project. During the early phases of construction, prior to the development of onsite wells, the Permittee obtained authorization for use of an off-site non-potable groundwater supply well for dust control. This well was located approximately 18 miles southwest of the project area in the Brady's Hot Springs Watershed.
The Sierra Solar Phase 1 Project site encompasses approximately 2,879 acres. The project is located on five (5) parcels Assessor's Parcel Number (APN): 004-351-03, 004-351-11, 004-351-15, 004-351-09, 004-351-22.

This permit authorize work in waterways occurring within the project boundary. The working in waterways consists of grading access roads across the ephemeral stream and trenching underground electrical cable below the ephemeral stream channel

Facility Overview

The Sierra Solar Project is situated within a valley bordered by two mountain ranges, with a centrally located unnamed ephemeral wash running through the project limits. This wash, which is non-jurisdictional under the U.S. Army Corps of Engineers (USACE), serves as the primary drainage feature for the entire project footprint and ultimately discharges to the Fernley Sink, located south of the site.

The ephemeral wash, which includes a mapped 100-year floodplain, is crossed by access roads constructed using heavy equipment such as excavators, bulldozers, skid steers, haul trucks, and graders. These crossings are built with native rock and soil materials to form low water crossings. Additionally, electrical cable subgrade installation within the wash is carried out using excavators, cable plows, and bulldozers.

Phase I of the project will consist of a 600-megawatt direct current (MWdc) solar photovoltaic (PV) power plant, an operations and maintenance (O&M) facility.

The Permittee shall submit two (2) copies (one electronic and one hard copy) of a Best Management Practices (BMP) plan for review and approval by the Division. The BMP plan shall be prepared by licensed professional engineer. The BMP plan must be approved by the Division prior to the commencement of any construction activities. The BMP plan is due within three (3) months from the permit issuance date.

Outfall Summary

Outfall DC1 – Dust control using non-potable water from three (3) local wells, applied within the construction site area on approximately 2,879 acres.

Outfall WW1- Working in Water ways (ephemeral tributary) for access road construction (see attached map).

Effluent Characterization
Non-potable water from three (3) on-site groundwater production wells.

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:

For dust control: Total Dissolved Solids (TDS) 1300 mg/L, Chloride 710 mg/L, Dissolved Manganese 0.29 mg/L

For working in waterways:

Total Petroleum Hydrocarbons (TPH): potential accidental TPH discharge from equipment operating in and around the channels.
Turbidity: construction activities are potential turbidity plume events.
Monitoring and sampling is required to ensure protection of waters.

Receiving Water

The receiving water is groundwater of the State, with depth to groundwater in the area ranging from approximately 137 to 207 feet below ground surface. No adverse effects are anticipated from the discharge of this non-potable water due to the significant depth to the aquifer.

There are three onsite wells, with static water levels measured during well development being 169 feet

below ground surface for Well No. 3, 203 feet below ground surface for Well No. 4, and 137 feet below ground surface for Well No. 5. Well drilling reports have been submitted to Nevada Division of Water Resources (NDWR).

The work in waterways is located in an unnamed ephemeral wash that drains to the Fernley Sink.

Compliance History
Not applicable - this is a new permit.

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

Zero Discharge Limitations Table for Sample Location Ww1 (External Outfall) To Be Reported Quarterly[5]

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Area inspection visual	Value	M&R Pass=0 Fail=1 (pass/fail)		See Footnote[1]	WW1	Daily	VISUAL
Hydrocarbons, total petroleum	Value		<= 1.0 Milligrams per Liter (mg/L)	See Footnote[2]	WW1	Instantaneous	DISCRT
Turbidity	Value		<= 50 Nephelometric Turbidity Units (NTU)	See Footnote[3]	WW1	Instantaneous	METER[4]

Notes (Zero Discharge Limitations Table):

1. Observe and report the condition of BMPs. If functioning properly, report "0". If malfunctioning or not installed report "1". Please see Special Approvals / Conditions Table item #10.
2. Sample the affected water in the event of a visible sheen, or equipment leak within 100 feet of the active project work areas, resulting in a spill in or near the waterway. Report to NDEP immediately. This limit applies to each spill event.
3. If a visible turbidity plume is generated, work shall cease immediately and the outfall shall be sampled using a handheld turbidimeter or other field instrument. Samples shall be taken from the center of the plume at upstream and downstream monitoring locations. The turbidity must be measured with a calibrated field meter, and the net increase shall be calculated as the value at the downstream monitoring location minus the value at the upstream monitoring location. The width and depth of the plume must be estimated at that time and recorded. BMPs must be reevaluated to stabilize the situation prior to resuming work. This limit is to be applied to the net increase in turbidity.
4. Visually monitor turbidity continuously when active work is occurring in a channel with water. If a visual sediment plume originates from the work area, sample at the outfall using a handheld turbidimeter or other field instrument. Record all values in a water quality logbook, and report maximum daily values for each outfall.
5. If no discharge occurs, please use no data indicator (NODI) code "C" when reporting to NetDMR.

NS OTHER - Discharge Limitations Table for Sample Location Dc1 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		See Footnote[1]	DC1	Continuous	METER
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		See Footnote[1]	DC1	Continuous	METER
Alkalinity, bicarbonate (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Aluminum, dissolved (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Antimony, dissolved (as Sb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Arsenic, dissolved (as As)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Barium, dissolved (as Ba)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Beryllium, dissolved (as Be)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Cadmium, dissolved (as Cd)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Calcium, dissolved (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT

NS OTHER - Discharge Limitations Table for Sample Location Dc1 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Chromium, dissolved (as Cr)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Copper, dissolved (as Cu)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Iron, dissolved (as Fe)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Lead, dissolved (as Pb)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Magnesium, dissolved (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Manganese, dissolved (as Mn)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Mercury, dissolved (as Hg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT

NS OTHER - Discharge Limitations Table for Sample Location Dc1 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
pH, maximum	Daily Maximum		M&R Standard Units (SU)	Effluent Gross	DC1	Annual	DISCRT
pH, minimum	Daily Minimum		M&R Standard Units (SU)	Effluent Gross	DC1	Annual	DISCRT
Potassium, dissolved (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Selenium, dissolved [as Se]	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Silver, dissolved (as Ag)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Sodium, dissolved (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Thallium, dissolved (as Tl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Uranium, natural, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Cyanide, weak acid, dissociable	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	DC1	Annual	DISCRT
Zinc, dissolved (as Zn)	Daily Maximum		M&R Milligrams per Liter	Effluent Gross	DC1	Annual	DISCRT

NS OTHER - Discharge Limitations Table for Sample Location Dc1 (External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
			(mg/L)				

Notes (NS OTHER - Discharge Limitations Table):

1. Monitor the average flow rate and total volume of water discharged, and report annually.

Summary of Changes From Previous Permit
Not applicable - this is a new permit.

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 ths permit.

Basis for Effluent Limitations

Profile 1 - To protect the groundwater of the State.
Flow - To estimate the impact on the groundwater of the State.
Turbidity- The 50 NTU value is consistent with the limitations for turbidity established in temporary discharge permits issued by the Division that authorize the operation of heavy equipment and work in waters of the State.
TPH - Total Petroleum Hydrocarbons (TPH) are limited to 1.0 mg/L per the State action level for remediation projects and are required to remain below the Bureau of Corrective Actions' action level of 1.0 mg/L for any discharges to groundwater. TPH will be sampled in the event of a spill.
Permit requirements are included to ensure protection of human health and waters of the State.
Daily visual inspection of equipment and BMPs is required so the Permittee can identify and correct potential pollution before discharge to a water of the State and for the protection of the environment.

Anti-backsliding
To prevent backsliding, limitations in a reissued permit are required to be as stringent as those in the previous permit. As this is a new permit, antibacksliding concerns are not applicable.

Antidegradation
The Division has developed an antidegradation regulation that is applied on a statewide basis and meets the statutory requirements of Nevada's water pollution control law, as set forth in Nevada Revised Statutes (NRS) 445A.520 and NRS 445A.565. This regulation is also consistent with the federal antidegradation policy outlined in Title 40 of 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 to maintain the unique attributes, special characteristics, and water quality associated with high-quality waters.

As this permit authorizes discharges to groundwater rather than surface water, the new antidegradation rule is not applicable. The State has not formally adopted specific water quality standards for groundwater; however, data reviewed from the temporary groundwater discharge permits during the process do not indicate a potential for groundwater degradation from the discharge of water, provided such discharges remain within the compliance limits of the proposed permit.

Special Conditions
See the Special Approvals/Conditions Table below.

SA – Special Approvals / Conditions Table

Item #	Description
1	Best Management Practices (BMPs) shall be implemented, and precautions shall be taken to minimize contamination and erosion, in accordance with the information submitted to NDEP.
2	BMPs shall be used for energy dissipation at all points where reclaimed water is discharged. If erosion occurs in the discharge areas, additional BMPs shall be installed, as appropriate, to dissipate flow velocity and prevent erosion and sediment transport.
3	Spill containment equipment shall be readily available for use as needed.
4	All equipment shall be inspected for leaks daily prior to use and periodically throughout the day.
5	The Permittee bears the responsibility to ensure that the requirements of this permit are fully satisfied.
6	All equipment fueling and storage of fuels shall be located off site and at least 100 feet away from any water of the State.
7	Any heavy equipment to be used in the work area must be steam cleaned at least once before work in the water bodies commences.
8	No work or stockpiling will be done with an approaching storm or during a precipitation event and BMP's will be in place prior to a storm event.
9	Presumption of Possession and Compliance: Copies of this permit and any subsequent modifications shall be maintained at the permitted project site at all times.
10	Other BMPs may include but are not limited to construction fences, track out devices, vegetation protection, and other BMPs as consistent with applicable BMP manuals and handbooks. If at any time the current BMPs are not effective, consultation with the Division is required prior to work resuming.
11	Sample the affected water in the event of a visible sheen, or equipment leak within 100 feet of the active project work areas, resulting in a spill in or near the waterway. Report to NDEP immediately.
12	BMPs shall be applied and precautions shall be taken to prevent and control releases of debris, sediment, any transport of sediments, and to prevent and control turbidity in the waterbody during construction activities.
13	Turbidity meter/instruments, when applicable, must be calibrated to a range of 150 NTU; meter calibrations must be performed daily, prior to the first sample collection of the day, in the event of a turbidity plume event. If the effluent turbidity is measured at a level greater or equal to 100 NTU the Permittee shall cease operations and reevaluate the best management practices (BMPs) to mitigate turbidity prior to recommencing construction activates.
14	Section C.2 of the permit is not applicable, the Permittee shall operate in accordance with an approved BMP Plan.
15	Section B.PB. of the permit is not applicable.

Discharges From Future Outfalls/ Planned Facility Changes
There are no planned changes at this time.

Corrective Action Sites
There are no Bureau of Corrective Actions sites within a one-mile radius of the site.

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 systeams well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public/home.htm.	1/28/2027
2	The Permittee shall submit two (2) copies of an Operations and Maintenance (O&M) Manual for review and approval by the Division. One copy shall be a hard copy, and the second shall be an electronic copy. The O&M Manual shall be prepared and stamped by a Nevada Registered Professional Engineer. O&M Manuals prepared by a Nevada Registered Professional Engineer must be signed and stamped in accordance with NAC 625.610.	4/1/2026

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Annual DMRs	Annually	1/28/2027
2	Quarterly DMRs	Quarterly	4/28/2026

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. **11/25/2025,** a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

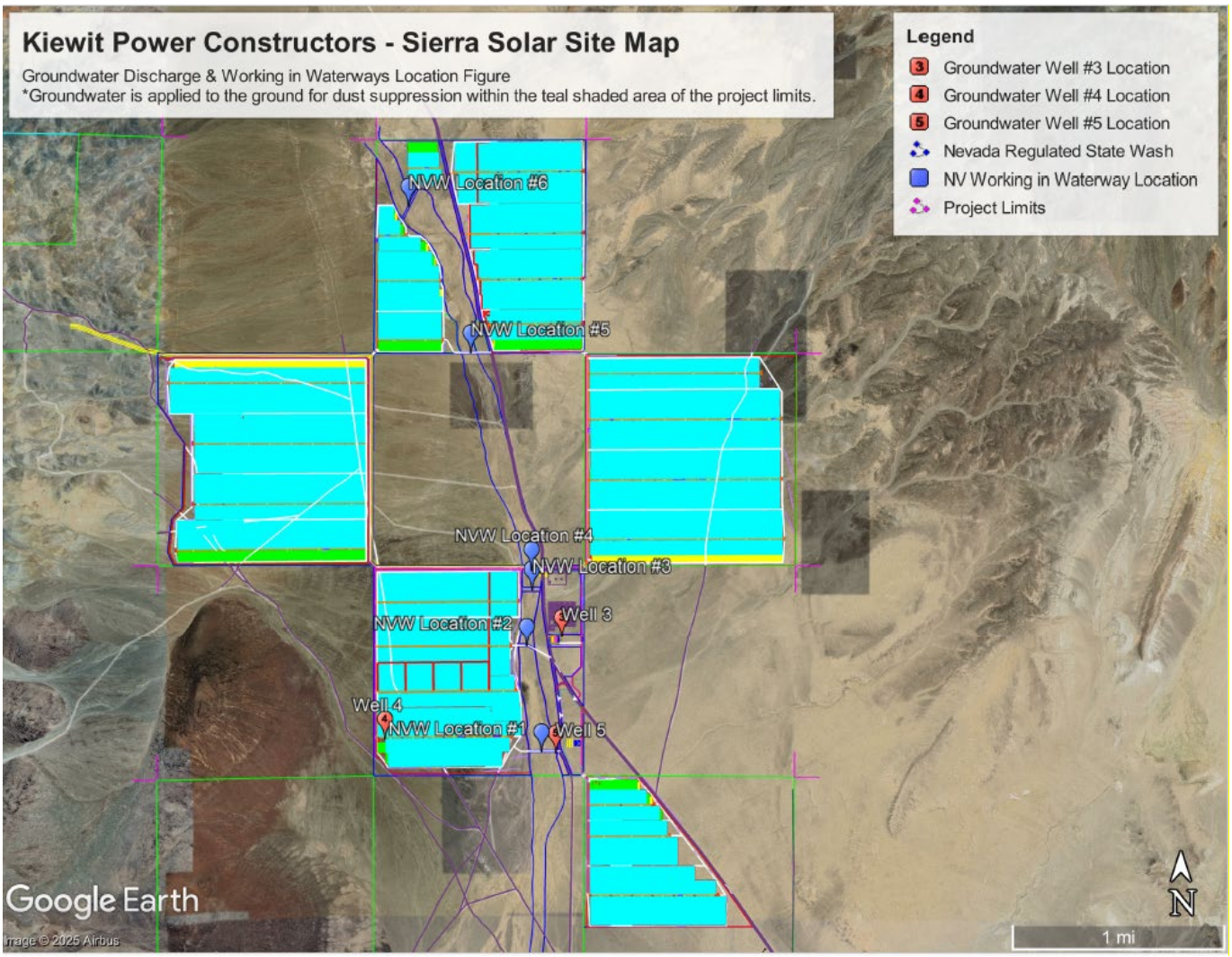
A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate 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: **Lior Singer P.E. M.Sc.**
Date: **10/23/2025**
Title: **Environmental Engineer**


Kiewit Power Constructors - Sierra Solar Site Map
Groundwater Discharge & Working in Waterways Location Figure
*Groundwater is applied to the ground for dust suppression within the teal shaded area of the project limits.
Legend
3 Groundwater Well #3 Location
4 Groundwater Well #4 Location
5 Groundwater Well #5 Location
Nevada Regulated State Wash
NV Working in Waterway Location
Project Limits
NVW Location #6
NVW Location #5
NVW Location #4
NVW Location #3
NVW Location #2
NVW Location #1
Well 3
Well 4
Well 5
Google Earth
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