



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

FACT SHEET (pursuant to NAC 445A.236)

Permittee Name: K ROAD MOAPA SOLAR LLC
ONE EMBARCADERO CENTER, SUITE 360
SAN FRANCISCO, CA - 94111

Permit Number: NS2013502 - [New]

Location: K ROAD MOAPA SOLAR FACILITY, CLARK COUNTY
15 MILES SOUTHWEST OF MOAPA TOWN, MOAPA TOWN, NV - 89025
LATITUDE: 36.482164, LONGITUDE: -114.824461
TOWNSHIP: 17S, RANGE: 64E, SECTION: 10

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	WELL TH-1/ ECP-1	Intake Structure		MOAPA TOWN	NV	89025	CLARK	36.526791	-114.786819	GROUNDWATER

General:

The applicant is proposing to apply water for dust control at the K Road Moapa Solar Facility (K Road), located near exit 75 off Interstate 15 approximately 15 miles southwest of Moapa Town, Clark County, Nevada. Upon completion, the solar facility will generate up to 250 megawatts (MW) of electricity. Prior to this permit being issued, K Road conducted similar discharge activities under temporary permits TNEV2013320 and TNEV2013399. The applicant proposes to discharge potable water extracted from Well TH-1 and Well ECP-1 to groundwaters of the State via water trucks for dust control use on the portions of the access roads that are on Bureau of Land Management (BLM) property. The entire K Road Solar Facility is located on approximately 2,153 acres of land within the Moapa River Indian Reservation and 10.5 acres of BLM land. This permit only authorizes discharge of water used for dust control on lands outside of the Reservation, as the Nevada Division of Environmental Protection has no jurisdiction over tribal lands.

Discharge Characteristics:

The discharged water applied for dust control is high quality and is not expected to degrade groundwaters of the State.

Receiving Water:

The receiving water is groundwater of the State of Nevada via percolation from dust control activities. The depth to groundwater is reported by the Permittee to be approximately 350 feet below ground surface and flow is in a southeasterly direction.

Proposed Effluent Limitations:

The Nevada Division of Environmental Protection (NDEP) proposes the following permit limitations and monitoring requirements:

NEV Other - Discharge Limitations Table for Sample Location 001 (Intake Structure) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.0450 Million Gallons per Day (Mgal/d)		Intake from Well	001	Daily	Calculated

NEV OTHER - Discharge Limitations Table for Sample Location 001 (Intake Structure) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, bicarbonate (as CaCO3)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Alkalinity, total (as CaCO3)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Aluminum, total (as Al)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Antimony, total (as Sb)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Arsenic, total (as As)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Barium, total (as Ba)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Beryllium, total (as Be)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Cadmium, total (as Cd)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Calcium, total (as Ca)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Chloride (as Cl)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Chromium, total (as Cr)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Copper, total (as Cu)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Fluoride, total (as F)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Iron, total (as Fe)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Lead, total (as PB)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Magnesium, total (Mg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Manganese, total (as Mg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Mercury, total (as Hg)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Nickel, total (as Ni)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Nitrite plus nitrate total 1 det. (as N)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Phosphorus, total (as P)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Potassium, total (as K)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Selenium, total (as Se)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Silver, total (as Ag)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Sodium, total (as Na)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Sulfate, total (as SO ₄)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Thallium, total (as Tl)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Solids, total dissolved	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Cyanide, weak acid, dissociable	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Zinc, total (as Zn)	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete
Hydrocarbon, total petroleum	Annual Maximum		M&R Milligrams per Liter (mg/L)	Intake from Well	001	Annual	Discrete

Special Conditions:

SA - Special Approvals / Conditions Table

Item #	Description
1	The water shall be applied to pervious surfaces only. Areas of application shall be kept clean and free of debris and observed daily to ensure that equipment leaks are not in contact with the dust control water.
2	BMPs shall be applied and precautions shall be taken to minimize erosion and dissipate energy throughout the discharge route.
3	The operation of dust control applications shall be conducted in a manner to keep standing water on the ground to a minimum.

Flow:

Dust control usage is to be permitted at a daily maximum rate of 45,000 gallons per day.

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within a one-mile radius of the proposed facility.

Schedule of Compliance:

SOC - Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit for review and approval (2) copies of an Operations and Maintenance (O&M) Manual. The O&M Manual shall be prepared and stamped by a Nevada Registered Professional Engineer or other Qualified Person. The O&M Manual shall include a copy of the current Storm Water Pollution Prevention Plan (SWPPP), schedule for discharge, and information on the piping, storage tanks, pumps and water delivery trucks.	5/1/2013

Procedure 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 sent to the **Moapa Valley Progress and Las Vegas Review-Journal** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of the public notice. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand delivered items) to the Division is **5:00 P.M. on April 22, 2013.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator 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 Nevada Administrative Code 445A.238.

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

Proposed Determination:

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

Prepared by: **Jason Ferrin, E.I.**
March 2013