

# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

## FACT SHEET

(pursuant to NAC 445A.236)

- Applicant:** Clark County Water Reclamation District  
5857 E. Flamingo Rd.  
Las Vegas, NV 89122
- Permit Number:** NV0023957
- Facility Locations:** East Sahara Avenue Sewer Rehabilitation Project 644-01  
City of Las Vegas in Clark County, Nevada  
Section 3 T21S R62E  
Latitude: 36° 08' 40.56" N Longitude: 115° 02' 22.29" W
- Discharge Outfalls:** Approximately 11 well points will be established within each 500 foot trench; three trenches will be required for the 1,500-linear foot project. All of the sumps and well points will combine into a common pipe with one discharge location at Outfall 001.

**Outfall 001: Sloan Drainage Channel approximately 1000 feet west of site**  
**Latitude: 36° 08' 40.68" N Longitude: 115° 02' 34.21" W**

**General:** Clark County Water Reclamation District is proposing upgrades to a 2,500-linear foot section of sanitary sewer located within Sahara Avenue right of way, extending from Orchard Valley Drive to Sloan Drainage Channel, in Las Vegas, Nevada. Dewatering is required for approximately 1,500 feet of the trench excavation and facility upgrades. Eleven pumping wells will be required for each 500-foot trench dewatering, with a maximum total pumping rate of 1,100 gallons per minute (gpm). The 644-01 project is scheduled to begin June 1, 2011. The proposed NPDES permit is for a period of five years although the sewer line replacement, dewatering and discharge activities are expected to be completed in 3 months or less.

**Flow:** The applicant requested a daily maximum dewatering discharge flow rate of 1,100 gallons per minute (gpm), equivalent to 1.58 million gallons per day (MGD). Dewatering is anticipated to require no more than 3 months.

**Receiving Water Characteristics:** From the trench dewatering, flows are conveyed to the west to the Sloan Drainage Channel (Channel), the receiving water body. The Sloan Channel is a tributary to the Las Vegas Wash, the primary wastewater and stormwater drainage outlet for the Las Vegas Valley and surrounding watershed. Settling tanks will be used to settle sediment from the water prior to discharge to the Channel. Monitoring of the discharge outfall to the Channel will ensure that Las Vegas Wash water quality is not adversely impacted and that downstream projects and downstream water users are not adversely impacted by the additional activities.

**Site Groundwater:** Within the project area the groundwater elevation is generally quite shallow, approximately 12 feet below ground surface. The local groundwater flow direction is northeast.

**Corrective Actions Sites:** There is one Bureau of Corrective Actions (BCA) hydrocarbon remediation site within a one-mile radius of the facility. The Sunrise Power Station, located approximately  $\frac{3}{4}$  mile up-gradient of the site, is just east of the Las Vegas Wash. The BCA Case Officer does not expect the remediation site to be impacted by the proposed project dewatering. Recent data from 2 nearby

monitoring wells, shows non-detect for all organic constituents. Monthly monitoring and sampling will be required to ensure that the BCA remediation project is not adversely impacted and that downstream water quality is not degraded.

**Wellhead and Drinking Water Supply Protection:** The application identified no public drinking water supply wells within 6000’ of the site. The sewer line construction and discharge sites are not within a wellhead protection area.

**Proposed Discharge Limits:** Specific sampling and monitoring requirements are listed below in Table I.

**Table I. Discharge Limitations, Sampling and Monitoring Requirements**

Parameters	Units	Discharge Limitations		Monitoring Requirements		
		30-Day Average	Daily Maximum	Sampling Locations	Monitoring Frequency	Monitoring Type
Flow <sup>1</sup>	gpm	---	1,100	001	Continuous	Flow meter
Flow <sup>1</sup>	MGD	1.58	---	001	Continuous	Calculate
pH –SV <sup>2</sup>	S.U.	6.5 ≤ pH ≤ 9.0		001	Monthly	Discrete
TDS <sup>3</sup>	mg/l	---	M&R	001	Monthly	Discrete
TPH <sup>4</sup>	mg/l	---	1.0	001	Monthly	Discrete
VOC <sup>5</sup>	µg/l	---	M&R	001	Monthly	Discrete

**NOTES:**

1. Monitor continuously and report quarterly, the total daily discharge rate from all wells.
2. Monitor monthly and report quarterly, the minimum, maximum and 30-day average pH values.
3. Sample monthly and report quarterly, the maximum TDS concentration values.
4. Sample monthly and report all results quarterly. Report the full range of hydrocarbons, C6-C40, purgeable and extractable. Analyze using EPA Methods 8260B and 8015B.
5. Sample monthly, and report all results for all parameters quarterly. Analyze using EPA Method 8260B.

gpm: gallons per minute  
 M&R: Monitor and Report  
 mg/l: milligrams per liter  
 SV: Single Value  
 TPH: Total Petroleum Hydrocarbons

MGD: Million gallons per day  
 S.U.: standard pH units  
 µg/l: micrograms per liter  
 TDS: Total Dissolved Solids  
 VOC: Volatile Organic Compounds

**Rationale for Permit Requirements:** The Division has established the monitoring requirements in Table 1 above to ensure that downstream water quality is not degraded as a result of project activities.

**Flow:** Daily maximum (and 30-day average) is set at 1,100 gpm; 1.58 MGD. The rationale for the daily maximum discharge was explained in the Flow section of this fact sheet.

**pH:** 6.5 - 9.0, standard pH units per standards stipulated in NAC 445A.199.

**TDS:** M&R. The shallow groundwater with naturally occurring elevated TDS levels would flow to the Wash, if it was not intercepted by the dewatering system. Therefore, the TDS standard is not applied to dewatering discharges in this area. This permit is for the interception and passage of groundwater and thus is exempted under the Colorado River Basin Salinity Control Forum’s policy on groundwater interception.

**TPH:** 1.0 mg/L. The limit is the State standard for remediation projects.

**VOC:** Monitor and Report.

**Schedule of Compliance:** The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance:

- The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- **No less than fourteen days prior to the first discharge authorized by this permit**, the Permittee shall submit written notice of commencement of discharge.
- **No less than fourteen days prior to the first discharge authorized by this permit**, or at most within 30 days of the permit issue date (**MM DD, 2011**), the Permittee shall submit to the Division, for review and approval, an Operations & Maintenance Manual (O&M), containing at a minimum a specific **Dewatering Discharge Plan** for the proposed shallow groundwater dewatering and discharge system, and a **Sampling and Analysis Plan (SAP)**. The SAP shall summarize the sampling, analytical, monitoring, notification procedures and data reporting to be conducted for the Outfall 001 sampling location. Before implementing changes to an approved O&M, the Permittee shall submit proposed changes to the Division for review and approval.

**Proposed Determination:** The Division has made the tentative determination to issue the proposed permit for a period of five (5) years.

**Procedures for Public Comment:** The Notice of the Division's intent to issue a NPDES permit for a five-year period, authorizing this facility to discharge into the Sloan Drainage Channel, subject to the conditions contained within the permit, is being sent to the **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 publication of the public notice in the newspaper. 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 **May 30, 2011 by 5:00 P.M.**

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 determines 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.

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