

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

- Applicant:** El Camino Construction Co., Inc.
5576 S. Fort Apache Rd., Ste. 100
Las Vegas, NV 89148
- Permit Number:** NV0023868
- Facility Locations:** Pittman Wash Sewer Relocation, Valle Verde Drive east to RR tracks
City of Henderson in Clark County, Nevada
Section 8 T22S R62E
Latitude: 36° 02' 30" N Longitude: 115° 04' 00" W
- Discharge Outfalls:** Several well points will be established within Pittman Wash; all of the sumps and well points will combine into a common pipe with one discharge location at:
- Outfall 001: end of discharge pipe to Pittman Wash**
Latitude: 36° 02' 40.88" N Longitude: 115° 03' 41.35" W

General: El Camino Construction is proposing to replace sewer system facilities located in Pittman Wash (Wash), from Valle Verde east to the existing railroad tracks at the Sandwedge Channel in Henderson, Nevada, located in Clark County. The existing sewer main to be removed is adjacent to the Wash main flow channel on the north and just below the Wash banks. One sewer main lateral crosses the Wash. The 24" sewer will upgrade the existing facility and provide additional stormwater protection through the construction of a concrete reinforced trail above the new sewer. The project consists of approximately 2,200 linear feet of 24" sewer line and the appropriate manhole structures. The permit is for groundwater management that will be needed while replacing the sewer main (sewage is strictly prohibited from being discharged). Wash-induced shallow groundwater will be diverted and/or pumped to sediment settling tanks prior to discharge to the Wash. The maximum flow permitted will be 350 gallons per minute. The pumped groundwater will be managed to not appreciably increase perchlorate concentrations in Pittman Wash, the Las Vegas Wash, Lake Mead and the Lower Colorado River system. The proposed NPDES permit is for a period of five years (typical permit timeframe) although the sewer line replacement, dewatering and discharge activities are expected to be completed in approximately 7 months. Several weirs are currently being constructed downstream of Pittman Wash, in the Las Vegas Wash, and surface water is being sampled for perchlorate at several locations in the Las Vegas Wash, Lake Mead, and in the Colorado River below Hoover Dam. Notifications to downstream users and other Wash project managers will be required under the permit in the event of an exceedance of permitted daily perchlorate mass loading.

Flow: The application requested a daily maximum dewatering discharge flow rate of 350 gallons per minute (gpm), equivalent to 0.504 million gallons per day (MGD), and a 30-day average flow rate of 200 gpm, or 0.288 MGD. Actual dewatering flow rates will be determined by the Permittee, based upon the maximum perchlorate loading rate of 3.0 lbs/day as measured at the end of the discharge pipe.

Site Groundwater: Within the project area the groundwater elevation varies with location, but is generally quite shallow, approximately 2-6 feet below ground surface. The local groundwater flow direction is northeast.

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

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.

Receiving Water Characteristics: The receiving water for the construction dewatering discharge is the Pittman Wash (Wash). Pittman Wash is a minor tributary to the Las Vegas Wash, which is the primary wastewater and stormwater drainage outlet for the Las Vegas Valley and surrounding watershed. The shallow groundwater encountered for the sewer line relocation project is representative of Pittman Wash water quality. Settling tanks will be used to filter the water prior to discharge to the Wash. Monitoring of the discharge outfall to Pittman Wash will ensure that water quality is not degraded appreciably and that downstream projects and downstream water users are not impacted by the additional activities in the Pittman Wash. This permit will limit the Permittee to a maximum daily perchlorate mass loading.

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

Table I. Effluent Limits and Sampling and Monitoring Requirements

Parameters & Units		Discharge Limitations	Sampling Location	Monitoring Frequency	Monitoring Type
Dewatering Discharge Daily Maximum ¹	gpm, MGD	350, 0.504	001	Continuous	Flow meter, calculation
30-Day Average Flow ¹	gpm, MGD	200, 0.288	001	Continuous	Calculation
pH	S.U.	6.5 - 9.0	001	Daily ¹	Discrete
Perchlorate ²	lbs/day	3.0	001	Weekly ⁴	Discrete
TPH ³	mg/L	1.0	001	Event ³	Discrete
TDS ⁴	lbs/day	M&R	001	Weekly ⁴	Discrete

NOTES:

1. Monitor daily and report monthly on DMR forms.
2. Measure concentration weekly and calculate mass load weekly; report monthly. Daily perchlorate load shall be calculated from the actual maximum flow rate and measured concentration of the end of pipe discharge. Perchlorate load shall not exceed the daily mass loading limit in Table I.
3. EPA Method 8260B and EPA Method 8015 B, full range, C6-C40. Monitor as background and in the event of a fuel leak/visible sheen.
4. Sample weekly, and report monthly on DMR forms.

gpm: gallons per minute
 M&R: Monitor and Report
 lbs/day: pounds per day load
 TPH: Total Petroleum Hydrocarbons

MGD: Million gallons per day
 S.U.: standard pH units
 mg/L: milligrams per liter
 TDS: Total Dissolved Solids

Rationale for Permit Requirements: The Division has established the monitoring requirements in Table 1 above to ensure that the Pittman Wash, Las Vegas Wash, Lake Mead, and the Colorado River system are not degraded appreciably as a result of project activities.

Flow: The rationale for the 30-day average and daily maximum discharges was explained in the Flow

section of this fact sheet.

pH: 6.5 - 9.0, standard units. pH is required monitoring per NAC 445A.198 and NAC 445A.199.

Perchlorate: 3.0 lbs/day. There are no water quality standards for perchlorate, but recent data submitted with the application shows groundwater perchlorate concentrations of 25-27 µg/L. The perchlorate sources are upstream of the project area. The proposed project will simply extract and discharge groundwater that would otherwise naturally recharge the Wash. The project will produce no net increase in perchlorate to the Wash. To protect downstream water quality, this permit will restrict the daily perchlorate load at the end of the discharge pipe to the Wash (Outfall 001) to a maximum of 3.0 lbs/day. The permit additionally requires that the Permittee notify the Division and downstream project managers and water users in the event of an exceedance of the permitted daily perchlorate mass loading.

TPH: 1.0 mg/L. The requirement is to take a background sample and to sample in the event of a noticeable sheen in the water. The presence of a sheen would primarily result from equipment leaks in or near the Wash.

TDS: Monitor & Report. 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.

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.
- Within 30 days of the permit effective date (**MM DD, 2010**), the Permittee shall submit to the Division, for review and approval, an updated **Dewatering Discharge Plan (DDP)** for the proposed shallow groundwater dewatering and discharge activities. Before implementing changes to an approved DDP, the Permittee shall submit proposed changes to the Division for review and approval.
- Within 30 days of the permit effective date (**MM DD, 2010**), the Permittee shall submit to the Division, for review and approval, a **Sampling and Analysis Plan (SAP)**. The SAP shall summarize the sampling, analytical, monitoring, notification procedures and data reporting to be conducted for Outfall 001 sampling location. Before implementing changes to an approved SAP, 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 Pittman Wash, 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 **April 27, 2010 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.

Prepared by: Jeryl R. Gardner, P.E.
Date: March 2010