

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Applicant: City of Ely
501 Mill Street
Ely, NV 89301

Permit Number: NV0023981

Facility Locations: Wells 6P & 7P discharge to Murry Creek via the City of Ely stormdrain system approximately 1 mile south-southwest of the City of Ely in White Pine County
Section 29 T16N R63E
Latitude: 39° 13' 40" N Longitude: 114° 54' 10" W

Discharge Outfalls: The 2 wells are piped into a central pump house, but are metered, controlled and sampled separately before the flows are combined in a common manifold at the pump house exit. From the pump house exit the water flows into a Murry Creek stormdrain drop inlet. The Murry Creek drop box contains 3 compartments. The third compartment channels flow not accepted by the City of Ely Municipal Water System into a 24" pipe that enters Murry Creek. A flume in Murry Creek just downstream of the drop box (Outfall 001) will be the compliance point.

Outfall 001: Murry Creek flume, approximately 1 mile southwest of the City of Ely
Latitude: 39° 13' 49" N Longitude: 114° 53' 58" W

General: Municipal wells RW-6P and RW-7P provide potable water to The City of Ely (Ely) Municipal Water System. Any water not accepted by the Ely MWS will overflow the collection box and be diverted into the Ely stormdrain system (SDS). The permit is for discharge of potable groundwater to Murry Creek via the Ely SDS. The permitted daily maximum flow rate will be 10.00 MGD. The potable water will flow from the collection box to the Murry Creek drop inlet located in Murry Street, approximately 1 mile south-southwest of Ely. From the drop inlet water will gravity flow in the Ely stormdrain system under Murry Street to Murry Creek. Murry Creek flows are piped through the City of Ely. At the exit of the Ely SDS the water is released to the Murry Creek Ditch on the north side of Ely. From there, the water enters the Georgetown Ranch and White Pine County Golf Course where the water is used for irrigation purposes. Any water not used for irrigation continues north in Murry Creek and subsequently flows into Steptoe Creek. The proposed NPDES permit is for a period of five years.

Flow: The applicant requested a daily maximum dewatering discharge flow rate of 10.00 million gallons per day (MGD).

Receiving Water Characteristics: After initial discharge to the stormdrain drop inlet the stormwater drainage system will deliver the discharge to Murry Creek, a designated Class D water. The beneficial uses and standards of Murry Creek are designated in NAC 445A.127. Murry Creek is an intermittent creek that historically channeled flow from the Murry Springs. Due to drought and dewatering, Murry Springs no longer flows naturally, and all water from Murry Springs will now be pumped through Wells 6P and 7P. All water discharged to Murry Creek from the wells will be non-treated water. Monitoring of the discharge outfall will ensure that Murry Creek water quality is not adversely impacted and that downstream water users are not adversely impacted by the discharge.

Site Groundwater: Within the discharge area the groundwater elevation varies but is approximately 10 feet below ground surface at the drop box. The local groundwater flow direction is east-northeast.

Corrective Actions Sites: There are no Bureau of Corrective Actions (BCA) 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 discharge location (other than the two wells comprising the discharge). The discharge location is within a designated wellhead protection area, the Murry Springs sub-basin.

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

Table I. Discharge Limitations, Sampling and Monitoring Requirements

Parameters	Units	Effluent Limits		Monitoring Requirements	
		Daily Maximum	30-Day Average	Monitoring Frequency	Monitoring Type
Total Daily Discharge Maximum ¹	gpm	7000	---	Continuous	Calculation
Total 30-Day Average Flow Rate ¹	MGD	---	10.0	Continuous	Flow meter
pH	S.U.	6.0 - 9.0	---	Quarterly	Discrete
DO	mg/l	≥ 3.0	---	Quarterly	Discrete
Profile I ²	mg/l	M&R	---	Annually	Discrete

NOTES:

1. Monitor and report quarterly, the total combined daily maximum flow and the 30-day average flow rate from wells 6P and 7P.
2. Profile I = Total Phosphorus, TKN, NO₂ + NO₃ as N, Total Nitrogen, Sulfate, TDS, pH, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Copper, Fluoride, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Zinc, and Hardness as CaCO₃. All metals analyses shall be total recoverable. Report annually in calendar year 4th quarter DMR, due January 28th following the close of the calendar year.

MGD: Million gallons per day
 S.U.: standard pH units
 mg/l: milligrams per liter

gpm: gallons per minute
 DO: dissolved oxygen
 M&R: Monitor and Report

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: The rationale for the 30-day average and daily maximum discharges was explained in the Flow section of this fact sheet.

pH: 6.0 - 9.0, standard units. The requirement is based on Nevada water quality standards for Class D waters (NAC 445A. 127).

DO: ≥ 3.0 mg/l. The requirement is based on Nevada water quality standards for Class D waters (NAC 445A. 127).

Profile I Metals: M&R. The requirement is to sample annually.

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.
- By **April 27, 2011** the Permittee shall submit to the Division, for review and approval, an updated **Operations & Maintenance Manual (O&M)** for the proposed discharge activities. Before implementing changes to an approved Plan, 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 Murry Creek, subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal** and the **Ely Times** 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 **January 25, 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.

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