

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET
(pursuant to NAC 445A.236)

Permittee Name: City of Sparks
431 Prater Way
Sparks, Nevada 89431

Permit Number: NEV2006506

Locations:

Tierra Del Sol Streetscapes and Common Areas Landscape Irrigation, Erin Dr. and Pyramid Highway, Sparks NV 89434; Longitude: 119°43'25"W, Latitude: 39°37'25"N, Section 3, T20N, R20E.

Galleria Streetscapes and Common Areas Landscape Irrigation, Disc Drive and Pyramid Highway, Sparks, NV 89434; Longitude: 119°44' 21"W, Latitude: 39°34'49"N, Sections 21 and 28, T20N, R20E.

Miramonte Streetscapes, Common Areas, and Parks, Los Altos Parkway and Belmar, Sparks, NV 89434; Longitude: 119°41'08"W, Latitude: 39° 35'32"N, Sections 24 and 25, T20N, R20E.

Kiley Ranch Streetscapes, Common Areas, Parks and Green Belts Landscape Irrigation, Sparks Blvd and Pyramid Highway, Sparks, NV 89434; Longitude: 119°43'28"W, Latitude: 39°36'39"N, Sections 10 and 15, T20N, R20E.

HAWCO Business Park Expansion Streetscapes, Common Areas and Green Belts landscape irrigation, 9732 SR 445, Sparks, NV 89434; Longitude: 119°42'14"W, Latitude: 39°40'41"N, Section 22, T21N, R20E.

Foothills/Vista Blvd. Streetscapes, Vista Blvd., Sparks, NV 89434; Longitude: 119°40'22"W, Latitude: 39°38'17"N, Sections 6 and 7, T20N, R21E.

Pioneer Meadows Streetscape, Parks, Commercial Landscape, and School, Vista Blvd., Sparks NV 89434; Longitude: 119°42'07"W, Latitude: 39°36'52"N, Sections 11, T20N, R20E.

Vista Blvd. Widening, Vista Blvd. from Los Altos Pkwy to Wingfield Pkwy, Sparks NV 89434; Longitude: 119°42'46"W, Latitude: 39°35'57"N, Sections 14, T20N, R20E.

Public Water Supply: There is one public supply well (PSW) near the Tierra Del Sol reuse site and three PSWs near the Foothills/Vista Blvd reuse site. There is one well in the Foothills/Vista Blvd site that is ranked as highly vulnerable to volatile organic compounds, soluble organic compounds, and inorganic compounds. The well that lies within the Tierra Del Sol site doesn't have sufficient information to rank the vulnerability. Reclaimed water as applied for reuse in accordance with the permit is not anticipated to impact the quality of the groundwater.

Wellhead Protection Area: These sites are not within an established wellhead protection area.

Corrective Action Sites: There is one Bureau of Corrective Actions (BCA) remediation site within one mile of the Kiley Ranch site. The BCA doesn't have any concerns about the permitted activity.

General: The Truckee Meadows Water Reclamation Facility (TMWRF) provides tertiary treated, denitrified and disinfected effluent for reuse at the eight irrigation and dust control facilities. Reclaimed water at the irrigation sites is being applied via spray

irrigation for turf grasses and drip irrigation for trees and other landscape plant materials. All irrigation operations shall be conducted and/or operated in accordance with the approved Effluent Management Plans (EMPs) and permit conditions; dust control, irrigation of revegetation and soil conditioning are included for construction uses.

Flow: The applicant has requested a total flow of 3.533 MGD 30-Day Average Flow and 4.242 MGD Daily Maximum Flow at a combination of eight sites including parks/streetscapes, common areas, commercial landscaping and a construction site. The permit requires the reuse water quantity to be monitored and reported. The maximum monthly flow is based upon the highest usage month determined from the consumptive use balance. The annual application volume is limited to a maximum of 1,105.23 acre feet/year for all the sites combined.

Receiving Water Characteristics:

Groundwater in the area is potable and the depth to groundwater in the area varies with elevation. The Permittee, as described in the approved EMP, will need to ensure that the treated denitrified effluent is applied at the consumptive rate. No adverse effects to groundwater are expected to occur as a result of this effluent reuse.

Description of the Location of the Discharge: The applicant intends to manage/reuse tertiary treated, denitrified and disinfected effluent water provided by the (TMWRF) on a total of eight sites: seven streetscapes/parks/common areas/green belts and one construction site. The TMWRF provides reclaimed water that meets Category B quality per NAC 445A.276, and is denitrified below 10 mg/l N.

Discharge Limitations: The TMWRF provides the City of Sparks with a Category B denitrified reclaimed water product. The 30-day average requirement for fecal coliform is set at 2.2 mpn/100 ml. Therefore, in accordance with NAC 445A.276, a buffer zone is not required, but control of public access is required.

TABLE 1

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Total Flow:	3.533 MGD	4.242 MGD	Continuous	Flow Meter
Million Gallons per Month (MGM)	Monitor & Report	Monitor & Report	Monthly	Flow Meter
Annual Application Volume (AF/yr)	1105.23		Cumulative	Flow Meter

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
Fecal Coliform (CFU or MPN/100ml)	2.2	23	Weekly	Discrete

Definitions:

CFU: Colony Forming Units

MPN: Most Probable Number

MGD: Million Gallons per Day

AF/yr: Acre-Feet per Year

Fecal Coliform results may be obtained from TMWRF, Permit #NEV2003506.

2011 Renewal: In the re-application, the Permittee proposed to remove the following four sites from Permit # NEV2006506: Los Altos Parkway, Canyon Hills Park, Maldonado Park and Harris Ranch. The Permittee also proposed to add two sites (Foothills-Vista Blvd. and Pioneer Meadows) that were previously listed in Permit # NEV2004530 and a new site (Vista Blvd. Widening) onto the existing Permit # NEV2006506.

Procedures for Public Comment:

The Notice of the Division's intent to reissue the permit authorizing the facility to discharge to the groundwater of the State of Nevada, subject to the conditions contained within the permit, is being sent to the **Reno Gazette-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 30 days following the date of the publication of the public notice. All comments must be received by **December 19, 2011**. 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 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 to accordance with NAC 445A.238.

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

Schedule of Compliance:

The Permittee shall implement and comply with the provisions of the following 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.

- a. **By Month Day, 2011**, the Permittee shall submit Cross-Connection control documentation. The documentation should include the annual cross-connection control required by Part I.B.13 of the permit. This documentation shall be submitted annually thereafter, due with the 4th Quarter Report. The cross connection control inspection shall be conducted by an AWWA Association Certified Cross Connection Control Specialist.
- b. **By Month Day, 2011**, the Permittee shall submit a new Effluent Management Plan (EMP) that combines all the sites listed in this permit.

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

Rationale for Permit Requirements: Required parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A.275 and 445A.276.

Prepared by: Jason Ferrin, E.I.
Bureau of Water Pollution Control
October, 2011