NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T
(pursuant to NAC 445A.236)

Permittee Name: Carson City
Parks Department
3303 Butti Way
Carson City, NV 89701

Permit Number: NEV93006

Description of Discharge Reuse irrigation

Location: Upper Centennial Park Softball Fields
Lower Centennial Park Softball Fields
Saliman Road Beautification Project
Lone Mountain Cemetery
Edmonds Sports Complex
Governor's Field
Northridge/Blackwell Pond Park

Latitude: 39° 11' 55" N Longitude: 119° 45' 25"W
Latitude: 39° 11' 29" N Longitude: 119° 42' 32"W
Latitude: 39° 08' 00" N Longitude: 119° 45' 00"W
Latitude: 39° 10' 36" N Longitude: 119° 45' 30"W
Latitude: 39° 07' 24" N Longitude: 119° 45' 33"W
Latitude: 39° 10' 58" N Longitude: 119° 44' 35"W
Latitude: 39° 10' 58" N Longitude: 119° 44' 35"W

Characteristics: Carson City Parks Department operates and maintains the above named facilities which are or will be irrigated with treated effluent supplied by the Carson City Water Reclamation Facility (CCWRF - NEV900008). The reuse water is used to irrigate turf grass and other plant materials at these sites in accordance with the terms and conditions of this permit and the Effluent Management Plans (EMPs) for each facility. Carson City Parks Department has requested to add Lower Centennial Park, Governor's Field, and Northridge/Blackwell Pond Park to this permit.

Annual Flow:* 24 Acre-Feet - Upper Centennial Park
26.2 Acre-Feet- Lower Centennial Park
No limits - Saliman Road
24 Acre-Feet - Lone Mountain Cemetery
110 Acre-Feet - Edmonds Sports Complex
27 Acre-Feet - Govenor's Field
14 Acre-Feet - Northridge/Blackwell

*Daily usage calculated with flow meters

Monitoring Requirements: The volume of irrigation is required to be monitored and reported for at each irrigation site.

Flow: Upper Centennial Park, Outfall 001A
Lower Centennial Park, Outfall 001B
Saliman Road Median watering, Outfall 002
Lone Mountain Cemetery, Outfall 003
Edmonds Sports Complex, Outfall 004
Govenor's Field, Outfall 005
Northridge, Outfall Outfall 006A
Blackwell Pond Park Outfall 006B

The following parameters shall be monitored of the treated effluent at CCWRF prior to discharge into the export lines.

Total Nitrogen as N: Monitor and Report mg/L Calculate

Fecal Coliform 2.2 CFU or MPN/100 ml 30 Day-Average
23 CFU or MPN/100 ml Daily Maximum

General: The subject Parks Department sites use and propose to reuse secondary treated disinfected effluent for irrigation of plant materials and turf grasses. Irrigation schedules and management are conducted in accordance with the Effluent Management Plans approved for each site. Effluent irrigation is conducted primarily at night and is applied seasonally from April through October or as needed.

During the non-irrigation season, the treated effluent is pumped to the Brunswick Canyon 3300 acre-ft effluent storage reservoir. The reservoir is located approximately 5 miles east of Carson City and east of the Carson River on land managed by the Bureau of Land Management. During the irrigation season, treated effluent is pumped from the treatment plant to the effluent storage reservoir and/or points of application.

No negative environmental impacts are anticipated as a result of reissuance of this proposed permit.

Receiving Water Characteristics: The receiving waters are the groundwaters of the State of Nevada. Groundwater is of drinking water quality, and varies in depth with location. Groundwater monitoring is required at the Centennial Park sites, the Edmonds Sports Complex site, and will be required at Governor's Field. Application rates are in accordance with nutrient management plans developed for each site in each respective Effluent Management Plan.

Procedures for Public Comment: The Notice of the Division's intent to reissue the permit

authorizing the facility to deliver treated effluent to permitted facilities subject to the conditions contained within the permit, is being sent to the **Nevada Appeal** and **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 publication of the public notice or by March 20, 2010. 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 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.

Proposed Determination

The Division has made the tentative determination to renew the proposed permit for a five (5) year period.

Proposed Effluent Limitations, Schedule of Compliance and Special Conditions

See page 2 above, and Permit page 2 for effluent limitations and permit pages 3 and 4 for Special Conditions and Schedule of Compliance.

Rationale for Permit Requirements

Monitoring of certain parameters at the treatment facility is required to assess the level of treatment being provided to the effluent to ensure that effluent reuse requirements are maintained.

The following items require monitoring for the following reasons;

Item	Reason for Monitoring
Flow	To ensure that effluent is not over applied to the individual reuse sites.
Fecal Coliform	Required for ensuring that the fecal coliform concentrations are congruent with permit limits and per NAC 445A.276.

Nitrogen Series	Nitrate, a potential end product of the nitrogen cycle which ultimately may enter the groundwater, is a health concern in concentrations greater than 10 mg/l. Since the effluent is reused at irrigation sites, total nitrogen is monitored.
Water Balance	Ensures that all of the treated effluent is disposed of through reuse properly, And is an indicator of any abnormal or unexpected system losses.

Modified by Joe Maez, P.E.
January 20, 2010