



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Acting Administrator

FACT SHEET

(Pursuant to NAC 445A.236)

Permittee Name: Edgewood Companies
1300 Buckeye Road, Suite A
Minden, NV 89423

Permit Number: NS2000501 (NEV2000501)

Location: Park Ranch
Douglas County, NV 89423
T13N, R19E, Sections 14, 23, 24, 25 and 26, MDB&M

Discharge Outfall: Douglas County Sewer Improvement District Export Pipeline
Latitude: 38° 58' 14" N, Longitude: 119° 48' 0" W

General: Edgewood Companies (Edgewood) has applied for renewal of groundwater discharge permit NS2000501, formerly NEV2000501. This permit was originally issued to Park Cattle Company in April of 2001. Park Cattle Company changed its name to Edgewood Companies in December of 2008.

Edgewood has requested to continue using secondary-treated, disinfected reclaimed water for flood irrigation of 479 acres of hay and pasture land. The subject property is located in Douglas County, west of the East Fork of the Carson River, north and south of Muller Lane, approximately 2.5 miles northwest of the Town of Minden. The reclaimed water, which meets Category D reuse requirements (NAC 445A.2768), is supplied by Douglas County Sewer Improvement District Plant #1 (DCSID1) under permit NEV80033.

Irrigation activities will be conducted in accordance with an Effluent Management Plan (EMP) submitted to, and approved by, the Nevada Division of Environmental Protection (NDEP).

Flow: The applicant has requested to use up to 1,637 acre-feet of reclaimed water per year with a maximum flow of 4.4 million gallons per day (MGD). This flow rate is based on the highest usage during the summer months. DCSID1 has authorized the Permittee to use up to 2,762 acre-feet per year.

Well Head and Drinking Water Supply Protection: The reuse site is not located within a Drinking Water Protection Area or a Wellhead Protection Area established for any well sources.

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

Site Groundwater: Depth to groundwater varies from 3½ to 8½ feet below ground surface. Groundwater monitoring is required. Monitoring well MW-1A was installed in the second quarter of 2008 to replace monitoring well MW-1 which was damaged by cattle.

Receiving Water Characteristics: Receiving water is groundwater of the state via percolation. Groundwater monitoring results from the previous eight quarters, July 2010 through June 2012, show the following characteristics:

Parameter	MW-1A (Mid-gradient Well)			MW-2 (Down-gradient Well)			MW-3 (Down-gradient Well)			MW-4 (Up-gradient Well)		
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max
Nitrogen, total (mg/L)	ND	1.3	2.5	<0.2	3.6	12	0.1	3.6	12	<0.3	0.5	1.11
Nitrate as N (mg/L)	ND	0.3	1.2	ND	1.9	11	<0.05	2.3	10	0.1	0.6	2.9
TDS (mg/L)	213	231	250	500	606	860	322	440	540	237	277	414
Chlorides (mg/L)	6.4	17	82	17.8	35	106	7.9	25.2	84	7.5	21.8	113
Depth to GW (feet)	1.9	3.2	4.6	2.8	4.2	5.2	5.8	7.0	7.6	6.5	8.0	8.9

Effluent Flow and Characteristics: During the same eight quarter period, the following reclaimed water characteristics were reported:

Parameter	Permitted 30-day Average	Permitted Daily Maximum	Minimum Reported	Average Reported	Maximum Reported
Flow (MGD)	2.2	4.4	0.087	0.533	2.099
Total Suspended Solids (mg/L)	30	45	10.0	10.3	20.0
Total Nitrogen (mg/L)	M & R	---	14.0	22.1	27.0
Fecal Coliform (c.f.u.)	200	400	2	5.5	300

Sampling Locations: Effluent samples and measurements taken in compliance with the monitoring requirements specified below shall be taken at:

Sample Location	Location Type	Location Name
001	Land Application Site	EXPORT PIPELINE
002	Monitoring Well	MW-1A
003	Monitoring Well	MW-2
004	Monitoring Well	MW-3
005	Monitoring Well	MW-4

Proposed Effluent Limitations: The discharge shall be limited and monitored by the Permittee as specified below. As applicable, exceptions to standard language in the permit are identified and authorized in the Special Approvals/Conditions table:

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Location	Sample Location	Measurement Frequency	Sample Type
Flow Rate	30 Day Average	<= 2.20 Million Gallons per Day (Mgal/d)	-----	Prior to Irrigation	001	Monthly	Meter
Flow Rate	30 Day Maximum	<= 4.40 Million Gallons per Day (Mgal/d)	-----	Prior to Irrigation	001	Monthly	Meter
Nitrogen, total	30 Day Maximum	-----	M&R Milligrams per Liter (mg/L)	Prior to Irrigation	001	Monthly	Discrete
Coliform, fecal general	30 Day Geometric Mean	-----	<= 200 Colony Forming Units per 100ml T (CFU/100mL)	Prior to Irrigation	001	Monthly	Discrete
Coliform, fecal general	Daily Maximum	-----	<= 400 Colony Forming Units per 100ml T (CFU/100mL)	Prior to Irrigation	001	Monthly	Discrete

Groundwater Monitoring: Monitoring wells MW-1A, MW-2, MW-3 and MW-4 shall be monitored and sampled in accordance with the following table:

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Location	Sample Location	Measurement Frequency	Sample Type
Depth to water level ft below land surface	Value	M&R (feet)	-----	Groundwater	002, 003, 004, 005	Quarterly	Visual
Nitrogen, total	Value	-----	< 10 Milligrams per Liter (mg/L)	Groundwater	002, 003, 004, 005	Quarterly	Discrete
Chloride (as Cl)	Value	-----	M&R Milligrams per Liter (mg/L)	Groundwater	002, 003, 004, 005	Quarterly	Discrete
Solids, total dissolved	Value	-----	M&R Milligrams per Liter (mg/L)	Groundwater	002, 003, 004, 005	Quarterly	Discrete

Rationale for Permit Requirements: Effluent monitoring is required to track the quantity and quality of reclaimed water being used.

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.

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies of an updated Effluent Management Plan (EMP) for review and approval by the Division. The EMP shall be compiled in accordance with NDEP guidance document WTS-1B, General Design Criteria for Preparing an Effluent Management Plan. Per WTS-1B, the EMP shall be prepared and stamped by a Nevada Registered Professional Engineer with comprehensive knowledge of the project. ^[1]	MM/DD/2013

¹: If no updates or revisions are required, the Permittee shall submit a letter by the above due date stating that there have been no changes to the previously approved EMP.

Special Approvals/Conditions:

Item #	Description
1	The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
2	Each quarter, the Permittee shall submit a document confirming adherence to the approved EMP. This document shall be signed, and shall contain the following certification. <i>"I certify that, for each month during the previous quarterly reporting period, all operational procedures and calculated application rates outlined in the approved Effluent Management Plan were adhered to."</i>

All schedule of compliance submittals and evidence of compliance documents shall be submitted to the Bureau of Water Pollution Control at the following address:

**Division of Environmental Protection
Bureau of Water Pollution Control
901 S. Stewart Street, Suite 4001
Carson City, NV 89701**

Proposed Determination: The Division has made the tentative determination to renew the permit, subject to permit limitations and conditions, for a period of five (5) years.

Procedures for Public Comment: The Notice of the Division's intent to issue a permit authorizing Edgewood Companies to discharge to groundwater of the State of Nevada, subject to the conditions contained within the permit, is being sent to the **Reno Gazette-Journal** and the **Record Courier** 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 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 **December 17, 2012, 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 reason 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: Arthur Marr, P.E.

Date: October, 2012