Nevada Division of Environmental Protection
FACTSHEET (Pursuant to NAC 445A.236)

PERMITTEE NAME: Spring Creek Utilities Co.
285 E. Spring Creek Parkway
Spring Creek, Nevada 89815

PERMIT NUMBER: NEV2006507

LOCATION: Spring Creek Utilities Co. – Septic System No. 2
Spring Valley Parkway, Tract 201, Parcel "D"
Spring Creek, Elko County, Nevada 89815

Latitude: 40° 47' 24" Longitude: 115° 40' 07"
Township: 34N, Range: 56E, Section: 33.

FLOW:
The large capacity commercial septic tank shall not receive more than 6,000 gallons per day (gpd).

CORRECTIVE ACTIONS SITES:
There are no Bureau of Corrective Actions remediation sites located within a five-mile radius from the center-point of the septic system.

WELLHEAD PROTECTION AREA:
The Spring Creek Utilities Individual Commercial Septic Wastewater Disposal Facility is within the 6000 ft., but outside the 3000 ft. buffer zones around three public water supply wells. The facility lies within the 25-year wellhead capture zone of the State established Spring Creek Utilities Wellhead Protection Area. The subject wells are completed in formations of 120 to 150 feet below ground surface.

GENERAL:
The Applicant owns and operates a facility offering rental of retail space in Spring Creek, Elko County, Nevada. Wastewater treatment at the site is provided by a large capacity commercial septic wastewater treatment facility. The treatment system currently serves five users including a car wash, two restaurants/bars, a gym and a small office building. The facility has previously operated under NDEP temporary permits TNEV2005460, TNEV2006455, and TNEV2007370.

The owner recognized the expected failure of the system and in 2007 constructed a new drain field south of the original one. The wastewater facility consists of an in-place oil/water separator for treatment of the car wash fluids, a 6,000 gallon septic tank which will receive treated water from the car wash and sanitary waste from other retail tenants, and a system of six lateral leach lines. The oil/water separator and the septic tank will provide primary wastewater treatment. The facility shall be permitted for a maximum flow of 6,000 gpd. The oil/water separator is owned by the car wash facility, but monitoring and maintenance is the responsibility of the Permittee. The wash water shall be analyzed for metals and total petroleum hydrocarbons (TPH) on a quarterly basis. All samples shall be taken at the discharge line to leachfield, after the septic tank and prior to the leachfield discharge.

PROPOSED OPERATIONAL CONDITIONS:

Table – 1 – Effluent Limitations

OSDS Parameter	Permit Limits		Monitoring Requirements	
	Quarterly Average	Daily Maximum	Measurement Frequency	Sample Type
Flow, Car Wash (gpd)	Monitor & Report		Monthly	Meter
Flow, Septic Tank (gpd)	---	6000	Monthly	Calculate
Chlorides (mg/L)	Monitor & Report		Quarterly	Discrete
Total Nitrogen (mg/L)	Monitor & Report		Quarterly	Discrete
TDS - Total Dissolved Solids (mg/L)	Monitor & Report		Annually	Discrete
pH (Standard Units)	6.0 to 9.0		Monthly	Discrete
Oil and Grease (mg/L)	Monitor & Report		Quarterly	Discrete
Total Petroleum Hydrocarbons (mg/L)	---	1.0	Quarterly	Discrete
Priority Pollutant Metals (mg/L)	Monitor & Report		Annually	Discrete

Table – 2 – Groundwater Monitoring

OSDS Parameter	Groundwater Limitations	Monitoring Requirements	
		Measurement Frequency	Sample Type
Depth of Groundwater (ft)	Monitor & Report	2nd & 4th Quarters	Discrete
Groundwater Elevation (ft, AMSL)	Monitor & Report	2nd & 4th Quarters	Calculate
Nitrate as N (mg/L)	Monitor & Report	2nd & 4th Quarters	Discrete
Total Nitrogen as N (mg/L)	10	2nd & 4th Quarters	Discrete
Chlorides (mg/L)	Monitor & Report	2nd & 4th Quarters	Discrete
TDS (mg/L)	Monitor & Report	2nd & 4th Quarters	Discrete

The Permittee shall sample the groundwater in MW-1, MW-A, MW-B, and MW-C on a semi-annual basis with a discrete sample (a sample taken in less than a 15 minute period) and analyze for the parameters listed in Table-2, submitted in accordance with this permit. If the nitrate as nitrogen level in these wells increases to 7.0 mg/L, an alternative method of effluent treatment and/or

disposal, which reduces the nitrogen loading into the groundwater, shall be selected and submitted for Division review and approval. If the nitrate as nitrogen level in these wells increases to 9.0 mg/L, the Permittee must begin construction of the alternative method of effluent treatment and/or disposal. If the nitrate as nitrogen level in these wells increases to 10.0 mg/L, the Permittee shall immediately implement the Division approved alternative method of effluent treatment and disposal.

A Biennial Septic System Evaluation Report (BSSER) is due every odd year of the permit cycle on the appropriate form - http://ndep.nv.gov/bwpc/docs/osds_large_capacity_biennia_report_form_091.pdf.

Additional monitoring requirements for all categories may be added at the Division's discretion. Surfacing of any substance from a system is strictly prohibited. The Permittee is required to implement an Operations & Maintenance (O&M) manual with operational policies that ensure proper equipment operation and compliance with the terms and conditions of this general permit.

Special Conditions:

1. The Permittee shall be responsible for monitoring, inspecting and sampling of the car wash oil/water separator attached to the Applicant's septic system.
2. The Permittee is ultimately responsible for the fluid discharged from the permitted system to the groundwaters of the State of Nevada.

MONITORING WELLS: There are four monitoring wells throughout the facility: MW-1, MW-A, MW-B, and MW-C. As of 2009, monitoring wells MW-B and MW-C were dry and samples have not been taken since. The dry wells must be reconstructed to receive water quality samples in order to stay compliant with the State Environmental Commission's (SEC) decision.

Monitoring well MW-A has had a very high total nitrogen level (up to 26 mg/L). This level was consistent with the effluent sample at the discharge of the pipe. Because the monitoring well is only 50 feet from the drain field, the belief is that direct effluent is being sampled from the monitoring well. Monitoring well MW-1 also has had high total nitrogen levels (up to 14 mg/L). Local public water system (PWS) wells have been tested and only background amounts (< 2.0 mg/L) of nitrate were found. This evidence shows that the total nitrogen levels in MW-1 are not polluting the drinking water and are only high because of the high density of septic tanks in the area.

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.

a. The Permittee shall achieve and/or maintain compliance with all effluent limitations upon issuance of the permit.

b. **By July 1, 2012,** the Permittee shall submit plans that address the high TPH levels in the effluent to NDEP.

c. **By December 31, 2012,** the Permittee shall submit to NDEP certification that the system has been constructed in accordance with the NDEP approved plans and treats the wastewater to below the TPH limits set forth in this permit.

d. **By December 31, 2012**, the Permittee shall properly repair monitoring wells MW-B and MW-C according to WTS-4, "Guidance Document for Design of Groundwater Monitoring Wells".

RECEIVING WATER CHARACTERISTICS:
The effluent percolates to the ground water through the soil beneath the leachfields. Well logs of monitoring wells within the section indicate groundwater is encountered at approximately 75 feet below ground surface (bgs). The groundwater flow direction is reported to be south.

PERMIT REQUIREMENTS & RATIONALE:
The permit requires routine monitoring, implementation of Best Management Practices (BMP), O & M Manual and reporting to ensure the site is performing at a level that minimizes water pollution and protects public health and the environment.

OPERATION REQUIREMENTS:
The Permittee shall operate the facility in compliance with permit provisions and requirements and in accordance with the Division-approved Operations and Maintenance Manual (O&M Manual). The O&M Manual shall contain information required to comply with this permit.

PROPOSED DETERMINATION:
The division has made the tentative determination to renew the proposed permit, under the provisions prescribed, for a 5-year period.

PROCEDURES FOR PUBLIC COMMENT:
The Notice of the Division's intent to renew a discharge permit to the applicant, subject to the conditions contained within the permit, is being sent to the Elko Daily Free Press and 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 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 **December 28, 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.

The application and proposed permit are on file and may be copied or copies may be obtained by writing or calling Jason Ferrin, Bureau of Water Pollution Control at (775)687-9502; fax: (775)687-4684; or email: jferrin@ndep.nv.gov. This fact sheet and the notice can be viewed online at the following web address: http://ndep.nv.gov/admin/public.htm.

Prepared by: Jason Ferrin, E.I.
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