

**FACT SHEET AND STATEMENT OF BASIS
TOWN OF SPRINGDALE RENEWAL PERMIT: DISCHARGE
UPDES PERMIT NUMBER: UT025224
MINOR MUNICIPAL**

FACILITY CONTACTS

Person Name: Bruce VanderWerff
Position: Mayor
Person Name: Rick Wixom
Position: City Manager
Person Name: Robert Tottem
Position: Public Works Superintendent
Phone Number: (435) 243-3686

Facility Name: Springdale Wastewater Lagoons
Mailing and Facility Address: Springdale City Offices
P. O. Box 187
118 Lion Blvd
Springdale, Utah 84767
Telephone: (435) 772-6907

DESCRIPTION OF FACILITY

The Springdale Wastewater Lagoons (Springdale) serves the towns of Springdale and Rockville, as well as Zion National Park. This facility was originally designed as a total containment lagoon system but was forced to expand and discharge because of growth in the area. The permit to discharge was first issued in 1995. This facility has a total design population equivalent of 4500 people and an influent organic loading of 765 lbs. per day for BOD5 and 900 lbs. a day for TSS. Since this facility discharges as needed, there is not any increase nor decrease between wet weather and dry weather flows. This facility has a grinder, two aerated primary cells, and one secondary cell for sedimentation and clarification. The effluent is treated with ultraviolet light for disinfection. The total surface area of the lagoons is 19.38 acres, and has a capacity of 52 million gallons. The average influent design flow is 0.29 MGD. The facility is located in Springdale, Washington County, Utah, with latitude 37°09'45" and longitude 113°04'17", with STORET Number 495088, and outfall 001 discharging to the Virgin River. Springdale only discharges on a periodic basis.

SUMMARY OF CHANGES FROM PREVIOUS PERMIT

There are no changes to the renewal permit from the previous one.

DISCHARGE

DESCRIPTION OF DISCHARGE

The wastewater treatment plant has one discharge point, known as Outfall 001. This 001 outfall has a latitude 37°09'45" and longitude 113°04'17". The discharge is an eight inch green PVC pipe discharging directly to the Virgin River. The average flow over the last thirty six months is 0.284 MGD per day.

<u>Outfall</u>	<u>Description of Discharge Point</u>
001	Located at latitude 37°09'45" and longitude 113°04'17". The discharge is an eight inch green PVC pipe discharging directly to the Virgin River

RECEIVING WATERS AND STREAM CLASSIFICATION

The Virgin River is classified as 1C, 2B, 3C, and 4 according to Utah Administrative Code (UAC) R317-2-13.3 (a).

- Class 1C -Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water.
- Class 2B -Protected for secondary contact recreation such as boating, wading, or similar uses.
- Class 3C -Protected for nongame fish and other aquatic life, including the necessary aquatic organisms in their food chain.
- Class 4 -Protected for agricultural uses including irrigation of crops and stock watering.

BASIS FOR EFFLUENT LIMITATIONS

Limitations on total suspended solids (TSS), biochemical oxygen demand (BOD₅), fecal and total coliforms, pH and percent removal for BOD₅ and TSS are based on current Utah Secondary Treatment Standards, *UAC R317-1-3.2*. Total Dissolved Solids (TDS) limitations are based on the Colorado River Basin Salinity Control Forum Policies as authorized in *UAC R317-2-4* to further control TDS within the Colorado River Basin portion of Utah. The oil and grease is based on best professional judgment (BPJ). The permit limitations are:

Parameter	Effluent Limitations			
	Maximum Monthly Average	Maximum Weekly Average	Daily Minimum	Daily Maximum
Flow, MGD	0.29	NA	NA	NA
BOD ₅ , mg/L	25	35	NA	NA
BOD ₅ Min. % Removal	85	NA	NA	NA
TSS, mg/L	25	35	NA	NA
TSS Min. % Removal	85	NA	NA	NA
Dissolved Oxygen, mg/L	NA	NA	4.0	NA
TDS, mg/L f*	NA	NA	NA	+400 f*
E. Coli, No/100mL	126	158	NA	NA
pH, Standard Units	NA	NA	6.5	9.0

NA – Not Applicable.

SELF-MONITORING AND REPORTING REQUIREMENTS

The following self-monitoring frequency requirements have increased since the previous permit. The permit will require reports to be submitted monthly and quarterly, as applicable, on Discharge Monitoring Report (DMR) forms due 28 days after the end of the monitoring period. Lab sheets for biomonitoring must be attached to the biomonitoring DMR.

Self-Monitoring and Reporting Requirements *a			
Parameter	Frequency	Sample Type	Units
Total Flow *b, *c	Continuous	Recorder	MGD
BOD ₅ , Influent Effluent	Monthly	Grab	mg/L
	Monthly	Grab	mg/L
TSS, Influent Effluent	Monthly	Grab	mg/L
	Monthly	Grab	mg/L
Ammonia e*	Monthly	Grab	mg/L
Dissolved Oxygen	Monthly	Grab	mg/L
TDS, Effluent f*	Quarterly	Grab	mg/L
Culinary Source f*	Quarterly	Grab	mg/L
E. Coli, No/100mL	Monthly	Grab	No./100mL
pH	Monthly	Grab	SU

a* See Definitions, *Part VIII*, for definition of terms.

b* Flow measurements of influent/effluent volume shall be made in such a manner that the permittee can affirmatively demonstrate that representative values are being obtained.

c* If the rate of discharge is controlled, the rate and duration of discharge shall be reported.

d* In addition to monitoring the final discharge, influent samples shall be taken and analyzed for this constituent at the same frequency as required for this constituent in the discharge.

e* Monitoring for ammonia is not related to any effluent limits in the permit. It is for informational purposes only.

f* The effluent shall not exceed the culinary water intake by more than 400 mg/L of TDS

BIOSOLIDS

The State of Utah has adopted the *40 CFR 503* federal regulations for the disposal of sewage sludge (biosolids) by reference. However, since this facility is a lagoon, there is not any regular sludge production. Therefore, *40 CFR 503* does not apply at this time. In the future, if the sludge needs to be removed from the lagoons and is disposed in some way, the Division of Water Quality must be contacted prior to the removal of the sludge to ensure that all applicable state and federal regulations are met.

STORM WATER

STORMWATER REQUIREMENTS

The Utah Administrative Code (UAC) R-317-8-3.9 requires storm water permit provisions to include the development of a storm water pollution prevention plan for waste water treatment facilities if the facility meets one or both of the following criteria.

1. Waste water treatment facilities with a design flow of 1.0 MGD or greater, and/or,
2. Waste water treatment facilities with an approved pretreatment program as described in 40CFR Part 403,

Springdale, does not meet either of the above criteria; therefore this permit does not include storm water provisions. The permit does however include a storm water re-opener provision.

PRETREATMENT REQUIREMENTS

The permittee has not been designated for pretreatment program development because it does not meet conditions which necessitate a full program. The flow through the plant is less than five (5) MGD, there are no categorical industries discharging to the treatment facility, industrial discharges comprise less than 1 percent of the flow through the treatment facility, and there is no indication of pass through or interference with the operation of the treatment facility such as upsets or violations of the POTW's UPDES permit limits.

Although the permittee does not have to develop a State-approved pretreatment program, any wastewater discharges to the sanitary sewer are subject to Federal, State and local regulations. Pursuant to *Section 307 of the Clean Water Act*, the permittee shall comply with all applicable Federal General Pretreatment Regulations promulgated, found in *40 CFR 403* and the State Pretreatment Requirements found in *UAC R317-8-8*.

An industrial waste survey (IWS) is required of the permittee as stated in Part II of the permit. The IWS is to assess the needs of the permittee regarding pretreatment assistance. The IWS is required to be submitted within sixty (60) days after the issuance of the permit. If an Industrial User begins to discharge or an existing Industrial User changes their discharge the permittee must resubmit an IWS no later than sixty days following the introduction or change as stated in Part II of the permit.

It is required that the permittee submit for review any local limits that are developed to the Division of Water Quality for review. If local limits are developed it is required that the permittee perform an annual evaluation of the need to revise or develop technically based local limits for pollutants of concern, to implement the general and specific prohibitions *40 CFR, Part 403.5(a)* and *Part 403.5(b)*. This evaluation may indicate that present local limits are sufficiently protective, need to be revised or should be developed.

BIOMONITORING REQUIREMENTS

As part of a nationwide effort to control toxic discharges, biomonitoring requirements are being included in permits for facilities where effluent toxicity is an existing or potential concern. In Utah, this is done in accordance with the *State of Utah Permitting and Enforcement Guidance Document for Whole Effluent Toxicity Control (Biomonitoring)*. Authority to require effluent biomonitoring is provided in *Permit Conditions, UAC R317-8-4.2, Permit Provisions, UAC R317-8-5.3* and *Water Quality Standards, UAC*

R317-2-5 and R317-2-7.2.

The reasonable potential for toxicity is not deemed sufficient to require biomonitoring or whole effluent toxicity (WET) limits because there are no present or anticipated industrial dischargers on the system nor are there any anticipated for the duration of this permit. The waste discharge is anticipated to be household waste only. Therefore, WET limits and testing are not required in this permit, however the permit will contain a WET reopener provision.

PERMIT DURATION

It is recommended that this permit be effective for a duration of five (5) years.

Drafted by
Daniel Griffin, Discharge
Utah Division of Water Quality

ADDENDUM TO FSSOB

A public notice for the draft permit was published in (newspaper) on January xx, 2014. The comment period ended on March xx, 2014.

A declaration if public comments were received during the public notice period, and how such comments affected the draft permit will be added here.

PV DRAFT