

Official Draft Public Notice Version **December 27, 2018**

The findings, determinations, and assertions contained in this document are not final and subject to change following the public comment period.

**FACT SHEET AND STATEMENT OF BASIS
CAPITOL REEF NATIONAL PARK
UPDES PERMIT NUMBER: UT0025798
MINOR INDUSTRIAL**

FACILITY CONTACTS

Person Name: Jeff Williams
Position: Maintenance Supervisor

Facility Name: Capitol Reef National Park
Mailing and Facility Address: HC 70 Box 15
Torrey, UT 84775

Telephone: (435) 425-3791

Actual Address: 52 Scenic Drive
Torrey, UT 84775

DESCRIPTION OF FACILITY

Capitol Reef National Park is using a reverse osmosis system to treat well water within the National Park to manage the hardness of water in their campgrounds, visitor's center, and employee housing. The peak treated water production from the system would be approximately 16,000 gallons per day. The well water will be pumped to the reverse osmosis system where it will be treated. Once treated, the water will be chlorinated and pumped to a drinking water storage tank. The reject water from the reverse osmosis system will be pumped to a sedimentation basin, then gravity flow to the Fremont River through a 4 inch pipe at latitude 38°16'14" and longitude 111°16'55". The SIC code is 4941: Water Supply.

SUMMARY OF CHANGES FROM PREVIOUS PERMIT

All limitations will remain the same as those in the previous permit.

DISCHARGE

DESCRIPTION OF DISCHARGE

<u>Outfall</u>	<u>Description of Discharge Point</u>
001	Located at latitude 38° 16' 14" and longitude 111° 16' 55". The discharge is through a 4-inch diameter pipe leading from the water treatment plant to the Fremont River.

RECEIVING WATERS AND STREAM CLASSIFICATION

The final discharge is to the Fremont River, which is classified as 1C, 2B, 3A, and 4.

Class1C	-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 3A	-Protected for cold water species of game fish and other cold water 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), pH and based on current Utah Secondary Treatment Standards, *UAC R317-1-3.2*. Limitations for Total Dissolved Solids are based on the discharge from the best available treatment technology that is used, and verified by the Wasteload Analysis as not causing an exceedance of water quality standards in the Fremont River.

The receiving water segment (Fremont River-3, Fremont River and tributaries from east boundary of Capitol Reef National Park to Bicknell) was listed in Utah's 2016 integrated report as being impaired for Total Dissolved Solids. Additionally, there is a lack of an approved TMDL, the Fremont River-3 for Total Dissolved Solids. However, the source of this impairment can be traced to a tributary of the Fremont, Sulphur Creek. Waters in the main stem of the Fremont where this discharge occurs are not impaired for TDS. Therefore, based on best professional judgment, the TDS limit for the facility is being maintained at the previous permit limit of 4,000 mg/L in this permit.

Discharges from the Capitol Reef facility could potentially reach the Colorado River, which places it under the requirements of the Colorado River Basin Salinity Control Forum (CRBSCF). In accordance with the CRBSCF the effluent will be limited to a maximum discharge of 1.0 ton per day or 366 tons per year. Total dissolved solids (TDS) limitations are based upon Utah Water Quality Standards for concentration values and the Colorado River Basin Salinity Control Forum (CRBSCF) for mass loading values when applicable as authorized in *UAC R317-2-4*.

REASONABLE POTENTIAL ANALYSIS

Since January 1, 2016, DWQ has conducted reasonable potential analysis (RP) on all new and renewal applications received after that date. RP for this permit renewal was conducted following DWQ's September 10, 2015 Reasonable Potential Analysis Guidance (RP Guidance). There are four outcomes defined in the RP Guidance: Outcome A, B, C, or D. These Outcomes provide a frame work for what routine monitoring or effluent limitations are required

A qualitative RP check was performed on metals to determine if there was enough data to perform a reasonable potential analysis on the outfall. The facility has not discharged in almost 3 years and is currently not in operation. Because of their process (reject water from reverse osmosis of well water) Capitol Reef National Park was not required to sample metals during the previous permit cycle, and as a result there is no metals data to analyze.

The permit limitations are:

Parameter	Effluent Limitations			
	30 - Day Average	Maximum 7 - Day Average	Daily Minimum	Daily Maximum
Flow, gpd	NA	NA	NA	2,880
Total Suspended Solids, mg/L	25	35	NA	NA
Total Dissolved Solids, mg/L	NA	NA	NA	4,000
Total Dissolved Solids, tons/day	NA	NA	NA	1.0
pH, Standard Units	NA	NA	6.5	9.0

NA – Not Applicable

SELF-MONITORING AND REPORTING REQUIREMENTS

The following self-monitoring requirements are the same as in the previous permit. The permit will require reports to be submitted monthly and annually, as applicable, on Discharge Monitoring Report (DMR) forms due 28 days after the end of the monitoring period. Effective January 1, 2017, monitoring results must be submitted using NetDMR unless the permittee has successfully petitioned for an exception. Lab sheets for biomonitoring must be attached to the biomonitoring DMR. Lab sheets for metals and toxic organics must be attached to the DMRs.

Parameter	Frequency	Sample Type	Units
Total Flow	Continuous	Recorder	gpd
Total Suspended Solids	Monthly	Composite	mg/L
Total Dissolved Solids	Monthly	Grab	mg/L
pH	Monthly	Grab	SU

STORM WATER

Storm water provisions are not included in this UPDES permit. The facility's SIC code is 4941: Water Supply, there is no bulk storage of any contaminants at the facility. Therefore, a storm water industrial UPDES permit is not required. A storm water re-opener provision is included in the permit should storm water requirements become necessary in the future.

PRETREATMENT REQUIREMENTS

The facility is a minor industrial facility and as such is not subject to pretreatment regulations. As a result there are no pretreatment requirements in the permit.

BIOMONITORING REQUIREMENTS

A nationwide effort to control toxic discharges where effluent toxicity is an existing or potential concern is regulated 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 permittee is classified as a minor industrial facility that will discharge a relatively small volume of effluent when compared to flows of the receiving stream. The receiving stream water quality monitoring data indicate no impairment of the stream. Based on these considerations, there is no reasonable potential for toxicity in the proposed discharge (per State of Utah Permitting and Enforcement Guidance Document for WET Control). As such, there will be no numerical WET limitations or WET monitoring requirements in this permit. However, the permit will contain a toxicity limitation re-opener provision that allows for modification of the permit should additional information indicate the presence of toxicity in the discharge.

PERMIT DURATION

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

Drafted by
Lonnie Shull
Utah Division of Water Quality,
October 26, 2018

PUBLIC NOTICE

Began: Month Day, Year
Ended: Month Day, Year

Comments will be received at: 195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870

The Public Noticed of the draft permit was published in the (NEWSPAPER OF RECORD FOR AREA).

During the public comment period provided under R317-8-6.5, any interested person may submit written comments on the draft permit and may request a public hearing, if no hearing has already been scheduled. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. All comments will be considered in making the final decision and shall be answered as provided in R317-8-6.12.

ADDENDUM TO FSSOB

During finalization of the Permit certain dates, spelling edits and minor language corrections were completed. Due to the nature of these changes they were not considered Major and the permit is not required to be re Public Noticed.

ATTACHMENT 1

Wasteload Analysis

PV Draft