UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part I. General Information (40 CFR 122.21(j)(1) and (9))

Permit Status: ☐ Renewal ☒ New Permit

UPDES Permit No.: _____ ☒ New Permit; UPDES Permit # Not Available

Facility Name: Red Cliffs Lodge

Facility Location: Milepost 14, Highway 128

City Moab State Utah Zip 84532

Facility Mailing Address: Milepost 14, Highway 128

City Moab State Utah Zip 84532

Facility Contact: Charles Every **Title:** General Manager

Phone Number: (435)259-0952 **Email Address:** charles@redcliffslodge.c

Name of Signatory: _____ **Title:** _____

Is the applicant the facility owner, operator or both? (check only one response.)

☐ Owner ☐ Operator ☒ Both

Indicate below any existing environmental permits. (Check all that apply and type the corresponding permit number for each.)

☐ RCRA (hazardous waste) ☐ UIC (underground injection control) ☐ PSD (air emissions)

☐ Nonattainment program (CAA) ☐ NESHAPs (CAA) ☐ Dredge or fill (CWA Section 404)

☐ Other (specify) _____

Nature of Business CFR (40 CFR 122.21(f)(8))

Describe the nature of your business

Red Cliffs Lodge provides lodging, dining, and recreation near Moab. Red Cliffs Lodge also hosts events such as weddings, business meetings, and any social occasion. Red Cliffs Lodge has an on-site restaurant, winery, and owns horses for recreation horseback rides.

UPDES Industrial Permit Application

Part II. Facility Information

Design and Actual Flow Rates

Provide design and actual flow rates in designated spaces.

Design Flow Rate	
.036	mgd

Annual Average Flow Rates (Actual)					
Five Years Ago		**Four Years Ago**		**Three Years Ago**	
.022	mgd	.024	mgd	.023	mgd
Two Years Ago		**Last Year**		**Current Year**	
.025	mgd	.028	mgd	.026	mgd

Maximum Daily Flow Rates (Actual)					
Five Years Ago		**Four Years Ago**		**Three Years Ago**	
.025	mgd	.026	mgd	.027	mgd
Two Years Ago		**Last Year**		**Current Year**	
.029	mgd	.03	mgd	.028	mgd

Describe the treatment for each outfall*

	Outfall Number	001	**Outfall Number**		**Outfall Number**	
Level of Treatment						
Primary	Treatment Unit		Treatment Unit		Treatment Unit	
	Size		Size		Size	
	Flow rate	8,803 GPD	Flow rate		Flow rate	
	Retention time		Retention time		Retention time	
	Other	No treatment for water being discharged in	Other		Other	
Equivalent to secondary	Treatment Unit		Treatment Unit		Treatment Unit	
	Size		Size		Size	
	Flow rate		Flow rate		Flow rate	
	Retention time		Retention time		Retention time	
	Other		Other		Other	

UPDES Industrial Permit Application

Part II. Facility Information *continued*

Describe the treatment for each outfall* *continued*

	Outfall #		**Outfall #**		**Outfall #**	
Secondary	Treatment Unit		Treatment Unit		Treatment Unit	
	Size		Size		Size	
	Flow rate		Flow rate		Flow rate	
	Retention time		Retention time		Retention time	
	Other		Other		Other	
Advanced	Treatment Unit		Treatment Unit		Treatment Unit	
	Size		Size		Size	
	Flow rate		Flow rate		Flow rate	
	Retention time		Retention time		Retention time	
	Other		Other		Other	
Other (specify)	Treatment Unit		Treatment Unit		Treatment Unit	
	Size		Size		Size	
	Flow rate		Flow rate		Flow rate	
	Retention time		Retention time		Retention time	
	Other		Other		Other	

* The data can be entered in the section above or an excel spreadsheet. Attached additional sheets if needed.

Production

Outfall Number	**Operation, Product, or Material**	**Quantity per Day**	**Unit of Measure**
001	Total Dissolved Solids	7,230	mg/L
001	Total Dissolved Solids	530	lbs/day

UPDES Industrial Permit Application

Part II. Facility Information *continued*

BLUEPRINT: Attach a line drawing that shows the water flow through your facility with a water balance.

☒ Blueprint Attached

MAP: Attach a USGS topographic map or aerial photo extending one mile beyond the property boundaries of the site, the facility or activity boundaries, any treatment area(s), outfall(s), major drainage patterns, and the receiving surface waters stated above.

☒ Map Attached

Are improvements to the facility scheduled?

☐ YES If YES, explain below.

■ NO If NO, Skip to Part III

Briefly list and describe the schedule improvements.

1.	
2.	
3.	
4.	

Provide scheduled or actual dates of completion for improvements.

Scheduled or Actual Dates of Completion for Improvements

	Scheduled Improvement (from above)	**Affected Outfalls** (list outfall number)	**Begin Construction** (MM/DD/YYYY)	**End Construction** (MM/DD/YYYY)	**Begin Discharge** (MM/DD/YYYY)	**Attainment of Operational Level** (MM/DD/YYYY)
1.						
2.						
3.						
4.						

UPDES Industrial Permit Application

Part III. Sampling Information

Provide all parameter sampling data with analytical results, reporting limit and any laboratory flags on an Excel spreadsheet. *An Excel Spreadsheet will be provided upon request.*

Has WET testing been conducted during the last 5 years? ☐ YES ■ NO

Indicate the acute and chronic WET tests (PASS or FAIL) results for the past 5 years. If no WET testing for the quarter, then leave blank (e.g., for semi-annual or annual testing or missed testing events).

Year	Outfall No. _____				Outfall No. _____				Outfall No. _____			
	Acute		Chronic		Acute		Chronic		Acute		Chronic	
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL	Qtr 1	☐ PASS ☐ FAIL
	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL	Qtr 2	☐ PASS ☐ FAIL
	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL	Qtr 3	☐ PASS ☐ FAIL
	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL	Qtr 4	☐ PASS ☐ FAIL
Describe any cause(s) of toxicity:												
Were the above WET analysis submitted to Utah DWQ? ☐ YES ☐ NO												

UPDES Industrial Permit Application

Part IV. Compliance Information

Has the facility had and parameter exceedances over the past five years? ☐ YES ■ NO

If Yes, provide the below information:

Parameter	Exceedance	Month/Year	Cause

UPDES Industrial Permit Application

Part IV. Compliance Information *continued*

Facility monitoring data.

Please provide the past **five years** of all parameters required to be monitored in the UPDES permit. The data can be entered in the section below or an excel spreadsheet. Attached additional sheets if needed.

Month	Year	Parameter	Min	Max	Avg	MDL/RL*

*MDL/RL is the analysis method detection limit or reporting limit located on the laboratory analysis report.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part V. Outfalls and Receiving Water(s)

Provide the latitude and longitude to the nearest second for each dewatering outfall. The specified location should be after all treatment and before release to the receiving water. Provide the name of the initial receiving water. If the initial receiving water is unnamed, please also indicate the closed named drainage the receiving water flows into (i.e. unnamed tributary of City Creek). Attach additional sheets if necessary for more outfalls.

Each outfall to a different receiving water segment is subject to additional application fees and annual fees.

Outfall No.	Average daily flow rate	Latitude	Longitude	Receiving Surface Waters (Name)
001	.0088 mgd	38 O 40 ‘ 47 “	109 O 26 ‘ 38 “	Colorado River
	mgd	O ‘ “	O ‘ “	
	mgd	O ‘ “	O ‘ “	

Do any of the outfalls described above have a season or periodic discharges?

☐ YES ☒ NO

If so, provide the following information for each applicable outfall.

	Outfall No.		Outfall No.		Outfall No.	
Number of times per year discharges occurs						
Average duration of each discharge (specify units)						
Average flow of each discharge		mgd		mgd		mgd
Months in which discharge occurs						

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part VI. Effluent and Intake Characteristics

Table A.
Conventional and Non-Conventional Pollutants

Are you requesting a waiver for one or more pollutants listed Table A for any of your outfalls?

■ YES ☐ NO

If yes, indicate the applicable outfalls below. Attach the waiver request and other required information to the application.

Outfall Number	001	Outfall Number		Outfall Number	

Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application?

☐ YES ■ NO; a waiver has been requested for all pollutants at all outfalls

Table B.
Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

Do any of the facility's processes that contribute waste water fall into one or more of the primary industry categories listed in Appendix A?

☐ YES ■ NO ☐ Not applicable

Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ YES ■ NO

List the applicable primary industry categories and check the boxes indicating the required Gas Chromatography/Mass Spectrometry (GS/MS) Fraction(s) identified in Appendix A.

Primary Industry Category	Required Gas Chromatography/Mass Spectrometry (GS/MS) Fraction(s)
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide
	☐ Volatile ☐ Acid ☐ Base/Neutral ☐ Pesticide

Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions?

☐ YES ■ NO

Have you checked "Believe Present" or Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

■ YES ☐ NO

Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believe Present" in your discharge?

■ YES ☐ NO

Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

■ YES ☐ NO

UPDES Industrial Permit Application

Part VI. Effluent and Intake Characteristics *continued*

Table C.
Certain Conventional and Non-Conventional Pollutants

Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls?

■ YES ☐ NO

Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an Effluent Limitation Guidelines and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believe Present"?

■ YES ☐ NO

Table D.
Certain Hazardous Substances and Asbestos

Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table D for all outfalls?

■ YES ☐ NO

Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available?

■ YES ☐ NO

Table E.
2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)

Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed below:

- ☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T)
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP)
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloro-propionate (Erbon)
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel)
- ☐ 2,4,5,-trichlorophenol (TCP)
- ☐ hexachlorophene (HCP).
- ☐ Or do you know of have reason to believe that TCDD is or may be present in the effluent?

☐ YES, Complete Table E ■ NO, Skip to Part VII

Have you completed Table E by reporting qualitative data for TCDD?

■ YES ☐ NO

Were any of the analyses reported in this section performed by a contract laboratory or consulting firm?

■ YES ☐ NO, Skip to Part VII

Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	American West Analytical Laboratories	Southeast Utah Health Department	
Laboratory address	3440 South 700 West, Salt Lake City, Utah 84119	P.O. Box 800, Price, Utah 84501	
Phone Number	(801)-263-8686	(435)-637-3671	
Pollutant(s) analyzed	Chloride, Sulfate, Nitrate, Sulfide, Total Dissolved Solids, pH	Bacteriologic Examination	

UPDES Industrial Permit Application

Part VII. Used or Manufactured Toxics

Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☐ YES ■ NO, Skip to Part VIII

List the pollutants below.

1.	4.	7.
2.	5.	8.
3.	6.	9.

UPDES Industrial Permit Application

Part IX. Biosolids Information

Was the Biosolids Annual Report submitted? ☐ YES ■ NO

☐ Attach a Biosolids Management Plan with application

Serve Connections? 0

Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used and disposed of:

Practice	Dry Metric Tons per 365-day Period
Amount generated at the facility	0
Amount treated at the facility	0
Amount used (i.e., received from offsite) at the facility	0
Amount disposed of at the facility	0

Treatment Provided at Your Facility

Identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Stabilization
- ☐ Composting
- ☐ Disinfection
- ☐ Heat drying
- ☐ Methane or biogas capture and recovery
- ☐ Thickening (concentration)
- ☐ Anaerobic digestion
- ☐ Conditioning
- ☐ Dewatering (e.g. centrifugation, sludge drying beds, sludge lagoons)
- ☐ Thermal reduction

Sewage Sludge Disposal Method

Land Application of Bulk Sewage Sludge

Is sewage sludge form your facility applied to the land? ☐ YES ■ NO If No, Skip to next section

Total dry metric tons per 365-day period of sewage sludge applied to all land sites:

Surface Disposal

Is sewage sludge from your facility placed on a surface disposal site?

☐ YES ■ NO If No, Skip to next section

Total dry metric tons of sewage sludge from your facility placed on all surface disposal sites per 365-day period: _____

Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?

☐ YES ☐ NO If No, complete the below information

Surface disposal site *you do not operate*

Site name _____

Mailing address _____

City _____ State _____ Zip _____

Contact Name _____ Title _____

Phone Number _____ Email Address _____

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part IX. Bisolids Information *continued*

Incineration

Is sewage sludge from your facility fired in a sewage sludge incinerator?
☐ YES ■ NO If No, Skip to next section

Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period: _____

Do you own or operate all sewage sludge incinerators in which sewage sludge from facility is fired?
☐ YES ☐ NO If No, complete the below information

Incinerator location *you do not operate*

Site name _____

Mailing address _____

City _____ State _____ Zip

Contact Name _____ Title _____

Phone Number _____ Email Address _____

Disposal in a Municipal Solid Waste Landfill

Is sewage sludge from your facility placed on a municipal solid waste landfill?
☐ YES ■ NO If No, Skip to next section

Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period: _____

Do you own or operate the municipal solid waste landfill in which sewage sludge is disposed?
☐ YES ☐ NO If No, complete the below information

Municipal Solid Waste Landfill *you do not operate*

Site name _____

Mailing address _____

City _____ State _____ Zip _____

Contact Name _____ Title _____

Phone Number _____ Email Address _____

UPDES Industrial Permit Application

Part X. Reuse Information

Is wastewater applied to land?
☐ YES ☒ NO If YES, complete the below information.

Land Application Site and Discharge Data

Location	Size	Average Daily Volume Applied	How often
	acres	gpd	☐ Seasonal ☐ Continuous ☐ Intermittent
	acres	gpd	☐ Seasonal ☐ Continuous ☐ Intermittent
	acres	gpd	☐ Seasonal ☐ Continuous ☐ Intermittent

Seasonal land application.

Indicate months of seasonal land application

☐ January	☐ April	☐ July	☐ October
☐ February	☐ May	☐ August	☐ November
☐ March	☐ June	☐ September	☐ December

Where is the Reuse water distributed

- ☐ Residential irrigation
- ☐ Urban uses
  - ○ Non-residential landscape irrigation
  - ○ Golf course irrigation
  - ○ Toilet flushing
  - ○ Fire protection
- ☐ Irrigation of food crops (direct contact with edible part) – spray irrigation
- ☐ Irrigation of food crops *(Non direct contact with edible part) – no spray irrigation*
- ☐ Irrigation
  - ○ Sod farms
  - ○ Silviculture
  - ○ Limited access highway rights of way
  - ○ Other areas where human access is restrict or unlikely to occur
- ☐ Irrigation of animal feed crops other than pasture for milking animals
- ☐ Impoundment of wastewater where direct human contact is not allowed or is unlikely to occur
- ☐ Cooling water
- ☐ Soil compaction or duct control in construction areas
- ☐ Other

☐ **Attached an updated Reuse Project Plan**

An updated Reuse Project Plan is required during every permit renewal.

UPDES Industrial Permit Application

Part X. Antidegradation Review

The objective of antidegradation rules and policies is to protect existing high quality waters and set forth a process for determining where and how much degradation is allowable for socially and/or economically important reasons. In accordance with Utah Administrative Code (UAC R317-2-3), an antidegradation review (ADR) is a permit requirement for any project that will increase the level of pollutants in waters of the state. The rule outlines requirements for both Level I and Level II ADRs, as well as public comment procedures. This review form is intended to assist the applicant and Division of Water Quality (DWQ) staff in complying with the rule but is not a substitute for the complete rule in R317-2-3.5. Additional details can be found in the *Utah Antidegradation Implementation Guidance* and relevant sections of the guidance are cited in this review form.

ADRs should be among the first steps of an application for a UPDES permit because the review helps establish treatment expectations. The level of effort and amount of information required for the ADR depends on the nature of the project and the characteristics of the receiving water. To avoid unnecessary delays in permit issuance, DWQ recommends that the process be initiated at least one year prior to the date a final approved permit is required.

DWQ will determine if the project will impair beneficial uses (Level I ADR) using information provided by the applicant and whether a Level II ADR is required. The applicant is responsible for conducting the Level II ADR. For the permit to be approved, the Level II ADR must document that all feasible measures have been undertaken to minimize pollution for socially, environmentally or economically beneficial projects resulting in an increase in pollution to waters of the state.

For permit requiring a Level II ADR, this antidegradation form must be completed and approved by DWQ before any UPDEs permit can be issued. Typically, the ADR form is completed in an iterative manner in consultation with DWQ. The applicant should first complete the statement of social, environmental and economic importance (SEEI) in Section C and determine the parameters of concern (POC) in Section D. Once the POCs' are agreed upon by DWQ, the alternatives analysis and selection of preferred alternative Section E can be conducted based on minimizing degradation resulting from discharge of the POCs. Once the applicant and DWQ agree upon the preferred alternative, the review is considered complete, and the form is submitted to DWQ.

What are the designated uses of the receiving water (R317-2-6)?

- ☒ Domestic Water Supply
- ☒ Recreation
- ☒ Aquatic Life
- ☒ Agricultural Water Supply
- ☐ Great Salt Lake

Antidegradation Category 1, 2 or 3 of receiving water (R317-2-3.2, -3.3, and -3.4): 3

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

Effluent flow reviewed: *typically, this should be the maximum daily discharge at the design capacity of the facility. Exceptions should be noted.*

The maximum daily discharge that can be expected is 10,000 gallons per day with a TDS concentration of 8,000 mg/L.

What is the application for? (Check all that apply)

- ☒ A UPDES permit for a new facility, project, or outfall.
- ☐ A UPDES permit renewal with an expansion of modification of an existing wastewater treatment works.
- ☐ A UPDES permit renewal requiring limits for a pollutant not covered by the previous permit and/or an increase to existing permit limits.
- ☐ A UPDES permit renewal with no charges in facility operations.

Section B. Is a Level II ADR required?

This section of the form is intended to help applicants determine if a Level II ADR is required for specific permitted activities. In addition, the Executive Secretary may require a Level II ADR for an activity with the potential for major impact on the quality of waters of the state (R317-2-3.5a.1).

B1. The UPDES permit is new <u>or</u> is being renewed and the proposed effluent concentration and loading limits are higher than the concentration and loading limits in the previous permit and any previous antidegradation review(s).

- ☒ YES – (Proceed to B3 of the Form)
- ☐ NO – No Level II ADR is required and there is <u>no need to proceed further with the review questions. Continue to the Certification Statement and Signature page.</u>

B2. Will any pollutants use assimilative capacity of the receiving water, i.e. do the pollutant concentrations in the effluent exceed those in the receiving waters at critical conditions? For most pollutants, effluent concentrations that are higher than the ambient concentrations require an antidegradation review? For a few pollutants such as dissolved oxygen, and antidegradation review is required if the effluent concentrations are less than the ambient concentrations in the receiving water. (Section 3.3.3 of Implementation Guidance)

- ☐ YES – (Proceed to B4 of the Form)
- ☐ NO – No Level II ADR is required and there is <u>no need to proceed further with the review questions. Continue to the Certification Statement and Signature page.</u>

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

B3. Are water quality impacts of the proposed project temporary and limited (Section 3.3.4 of Implementation Guidance)? Proposed projects that will have temporary and limited effects on water quality can be exempted form a Level II ADR.

- ☐ YES – Identify the reason used to justify this determination if B4.1 and proceed to Section G. No Level II ADR is required.
- ☒ NO – A Level II ADR is required (Proceed to Section C)

B3.1 Complete this question only if the applicant is requesting a Level II review exclusion for temporary and limited projects (See R317-2-3.5(b)(3) and R317-2-3.5(b)(4)). For projects requesting a temporary and limited exclusion please indicate the factor(s) used to justify this determination (check all that apply and provide details as appropriate) (Section 3.3.4 of Implementation Guidance):

- ☐ Water quality impacts will be temporary and related exclusively to sediment or turbidity and fish spawning will not be impaired.

Factors to be considered in determining whether water quality impacts will be temporary and limited:

a) The length of time during which water quality will be lowered:	
b) The perfect change in ambient concentrations of pollutants:	
c) Pollutants affected:	
d) Likelihood for long-term water quality benefits:	
e) Potential for any residual long-term influences on existing uses:	
f) Impairment of fish spawning, survival and development of aquatic fauna excluding fish removal efforts:	
Additional justification, as needed:	

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

Level II ADR

Section C, D, E, and F of the form constitute the Level II ADR Review. The applicant must provide as much detail as necessary for DWQ to perform the antidegradation review. Questions are provided for the convenience of applicants; however, for more complex permits it may be more effective to provide the required information in a separate report. Applicants that prefer a separate report should record the report name here and proceed to Section G of the form.

Option Report Name: _____

Section C. Is the degradation from the project socially and economically necessary to accommodate important social or economic development in the area in which the waters are located? *The applicant must provide as much detail as necessary for DWQ to concur that the project is socially and economically necessary when answering the questions in the section. More information is available in Section 6.2 of the Implementation Guidance.*

C1. Describe the social and economic benefits that would be realized through the proposed project, including the number and nature of jobs created and anticipated tax revenues.

Red Cliffs Lodge employs around 100 people. They serve between 4,000 to 8,000 people every month. The current water treatment system consists of a large water softener that treats all water that is used, and several small reverse osmosis filters for the drinking water.

Removing the water softener and small reverse osmosis filters with one large reverse osmosis filter would reduce the amount of chemicals that Red Cliffs Lodge used for laundry and dish washing services. This would also reduce the energy cost for the Lodge. The plumbing, fixtures, and water heaters would be able to last longer as well. This alone would save the Lodge $10,000 a year. The Lodge would save about $30,000-$40,000 a year by installing a reverse osmosis filter. This does not count profits that are lost to refunds and canceled services due to failure of water fixtures.

C2. Describe any environmental benefits to be realized through implementation of the proposed project.

Red Cliffs Lodge currently uses a water softener and a system of reverse osmosis filters to remove the salt from their well water. A reverse osmosis system would be a simpler system to operate, and use less energy. This would also relieve the salt deposition into the soils as the current water softener discharges salt into the septic system.

C3. Describe any social and economic losses that may result from the project, including impacts to recreation or commercial development.

There will not be any social or economic losses from this project.

C4. Summarize any supporting information from the affected communities on preserving assimilative capacity to support future growth and development.

This will enable Red Cliffs Lodge to provide more reliable safe drinking water system to the employees and guests.This will also enable Red Cliffs Lodge to save money and potentially grow in the future. However, this is not a municipal system and is not currently planning on growing.

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

C5. Please describe any structures or equipment associated with the project that will be placed within or adjacent to the receiving water.

A Reverse Osmosis treatment system will be installed near the well on the South of Highway 128. The concentrate from the reverse osmosis system will be piped across Highway 128, and piped to the Colorado River. Once the concentrate reaches the Colorado River the concentrate will be discharged to the Colorado River. Rip rap will also be installed to prevent erosion from the discharged concentrate flows.

C6. Will the discharge potentially impact a drinking water source, e.g., Class 1C waters? Depending upon the locations of the discharge and its proximity to downstream drinking water diversions, additional treatment or more stringent effluent limits or additional monitoring, beyond that which may otherwise be required to meet minimum technology standards or in stream water quality standards, may be required by the Director in order to adequately protect public health and the environment (R317-2-3.5 d.).

☐ YES
☒ NO

Section D. Identify and rank (from increasing to decreasing potential threat to designated uses) the parameters of concern. *Parameters of concern are parameters in the effluent at concentrations greater than ambient concentrations in the receiving water. The applicant is responsible for identifying parameter concentrations in the effluent and DWQ will provide parameter concentrations for the receiving water. More information is available in Section 3.3.3 of the Implementation Guidance.*

Parameters of Concern:

Rank	Pollutant	Ambient Concentration	Effluent Concentration
1.	Total Dissolved Solids (TDS)	450 mg/L	7230 mg/L
2.			
3.			
4.			
5.			

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

Pollutants Evaluated that are not Considered Parameters of Concern:

Pollutant	Ambient Concentration	Effluent Concentration	Justification
1.			
2.			
3.			
4.			
5.			

Section E. Alternative Analysis Requirements of Level II Antidegradation Review. *Level II ADRs require the applicant to determine whether there are feasible less-degrading alternatives to the proposed project. More information is available in Section 5.5 and 5.6 of the Implementation Guidance.*

E1. The UPDES permit is being renewed without any changes to flow or concentrations. Alternative treatment and discharge options including changes to operations and maintenance were considered and compared to the current processes. NO economically feasible treatment or discharge alternatives were identified that were not previously considered for any previous antigradation review(s).

☐ YES – (Proceed to Section F)
☒ NO or Does Not Apply (Proceed to E2)

E2. Attach as an appendix to this form a report that describes that following factors for all alternative treatment options (see 1) a technical descriptions of the treatment process, including construction costs and continued operation and maintenance expenses, 2) the mass and concentration of discharge constituents, and 3) a description of the reliability of the system, including the frequency where recurring operation and maintenance may lead to temporary increases in discharged pollutants. Most of this information is typically available from a Facility Plan, if available.

Report Name: Red Cliffs Lodge Alternative Treatment Report

E3. Describe the proposed method and cost of the baseline treatment alternative. The baseline treatment alternative is the minimum treatment required to meet water quality based effluent limits (WQBEL) as determined by the preliminary or final wasteload analysis (WLC) and any secondary or categorical effluent limits.

The proposed method of water treatment is to install a reverse osmosis system (RO) near the well house. The RO would have two RO systems. One would run, and when that system needs to backwash or is shut down for maintenance then the second system would run.

There won't be any storage for the concentrate, and the RO would only discharge concentrate when the RO is running.

The cost of both RO systems is $140,000. This does not include the cost for any building improvements, or the cost of installing the pipe to enable to concentrate to discharge from the RO to the river.

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

E4. Were any of the following alternatives feasible and affordable?

Alternative	Feasible	Reason Not Feasible/Affordable
Pollutant Trading	☐ YES ■ NO	According to the EPA website on the NPDES Water Quality Trading there is no existing wa
Water Recycling/Reuse	☐ YES ■ NO	There is no location to recycle the concentrate, and it is not feasible to transport concentrat
Land Application	☐ YES ■ NO	The concentrate TDS level is too high to land apply.
Connection to Other Facilities	☐ YES ■ NO	This is not feasible as there are no other facilities near the Lodge.
Upgrade to Existing Facility	■ YES ☐ NO	This is the preferred alternative.
Total Containment	☐ YES ■ NO	It would not be affordable to build a pond big enough for total containment of the effluent.
Improved O&M of Existing Systems	☐ YES ■ NO	This would not allow Red Cliffs to simplify the treatment system.
Seasonal or Controlled Discharge	☐ YES ■ NO	Concentrate is created year round, and a storage pond is not affordable.
New Construction	■ YES ☐ NO	The new construction for this project is upgrading the current system.
No Discharge	☐ YES ■ NO	The TDS level of the well water is too high to use without treatment. There is not enough la

E5. From the applicant's perspective, what is the preferred treatment option?

The preferred treatment option is upgrading the existing facility to a reverse osmosis system. This would include the new construction of the reverse osmosis system, and a pipe line to direct the concentrate to the discharge location of the Colorado River.

UPDES Industrial Permit Application

Part X. Antidegradation Review *continued*

E6. Is the preferred option also the least polluting feasible alternative?

☒ YES ☐ NO

If No, what were less degrading feasible alternative(s)?

If No, provide a summary of the justification for not selecting the least polluting feasible alternative and if appropriate, provide a more detailed justification as an attachment.

Section F. Optional Information

F1. Does the applicant want to conduct optional public review(s) in addition to the mandatory public review? Level II ADRs are public noticed for a thirty day comment period. More information is available in Section 3.7.1 of the Implementation Guidance.

☐ YES ☒ NO

F2. Does the project include an optional mitigation plan to compensate for the proposed water quality degradation?

☐ YES ☒ NO

Report Name: _____

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Part XI. Certification Statement and Signature

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with system designed to assure that quailed personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment of knowing violations.

CHARLES EVERLY		G.M.	11/24/20
PRINT Signatory Authority	**Signature**	**Title**	**Date**

The Division of Water Quality may request addition information.

Important: The UPDES Permit Application will not be considered complete unless you answer every question. If an item does not apply to you, enter "Not Applicable" to show that you considered the question.

The UPDES Permit Application, must be signed as follows:

1) For a corporation, a responsible corporate officer shall sign the NOT, a responsible corporate officer means:
   a. A President, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
   b. The manager of one or more manufacturing, production, or operating facilities, if
      i. The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations:
      ii. The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
      iii. Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
2) For a partnership of sole proprietorship, the general partner or the proprietor, respectively; or
3) For a municipality, state or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of any agency means;
   a. The chief executive officer of the agency; or
   b. A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Where to File the UPDES Permit Application form:

Please submit the original form with a signature in ink to the below address. Remember to retrain a copy for your records.

UPDES sent by mail:

Division of Water Quality
195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870

OFFICE USE ONLY

Date received: __/__/__ **Received by:** _____ **Document No:** _____

via: ☐ Email ☐ Fax ☐ Webportal ☐ Mail ☐ Hand Delivery

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

Appendix A. Testing Requirements for Organic Toxic Pollutants
Industry Categories*

	Industry Category	Volatile	Gas Chromatography/Mass Spectrometry (GS/MS) Fraction(s)†		Pesticide
			Acid	Base/Neutral	
1.	Adhesives and sealants	X	X	X	☐
2.	Aluminum forming	X	X	X	☐
3.	Auto and other laundries	X	X	X	X
4.	Battery manufacturing	X	☐	X	☐
5.	Coal mining	☐	☐	☐	☐
6.	Coil coating	X	X	X	☐
7.	Copper forming	X	X	X	☐
8.	Electric and electronic compounds	X	X	X	X
9.	Electroplating	X	X	X	☐
10.	Explosives manufacturing	☐	X	X	☐
11.	Foundries	X	X	X	☐
12.	Gum and wood chemicals (all subparts except D and F)	X	X	☐	☐
13.	Gum and wood chemicals, Subpart D (tall oil rosin)	X	X	X	☐
14.	Gum and wood chemicals, Subpart F (rosin-based derivatives)	X	X	X	☐
15.	Inorganic chemicals manufacturing	X	X	X	☐
16.	Iron and steel manufacturing	X	X	X	☐
17.	Leather tanning and finishing	X	X	X	☐
18.	Mechanical products manufacturing	X	X	X	☐
19.	Nonferrous metals manufacturing	X	X	X	X
20.	Ore mining, Subpart B (base and precious metals)	☐	X	☐	☐
21.	Organic chemicals manufacturing	X	X	X	X
22.	Paint and ink formulation	X	X	X	☐
23.	Pesticides	X	X	X	X
24.	Petroleum refining	X	☐	☐	☐
25.	Pharmaceutical preparations	X	X	X	☐
26.	Photographic equipment and supplies	X	X	X	☐
27.	Plastic and synthetic materials manufacturing	X	X	X	X
28.	Plastic processing	X	☐	☐	☐
29.	Printing and publishing	X	X	X	X
30.	Pulp and paperboard mills	X	X	X	X
31.	Rubber processing	X	X	X	☐
32.	Soap and detergent manufacturing	X	X	X	☐
33.	Steam electric power plants	X	X	☐	☐
34.	Textile mills (except Subpart C, Greige Mills)	X	X	X	☐
35.	Timber products processing	X	X	X	X

Key

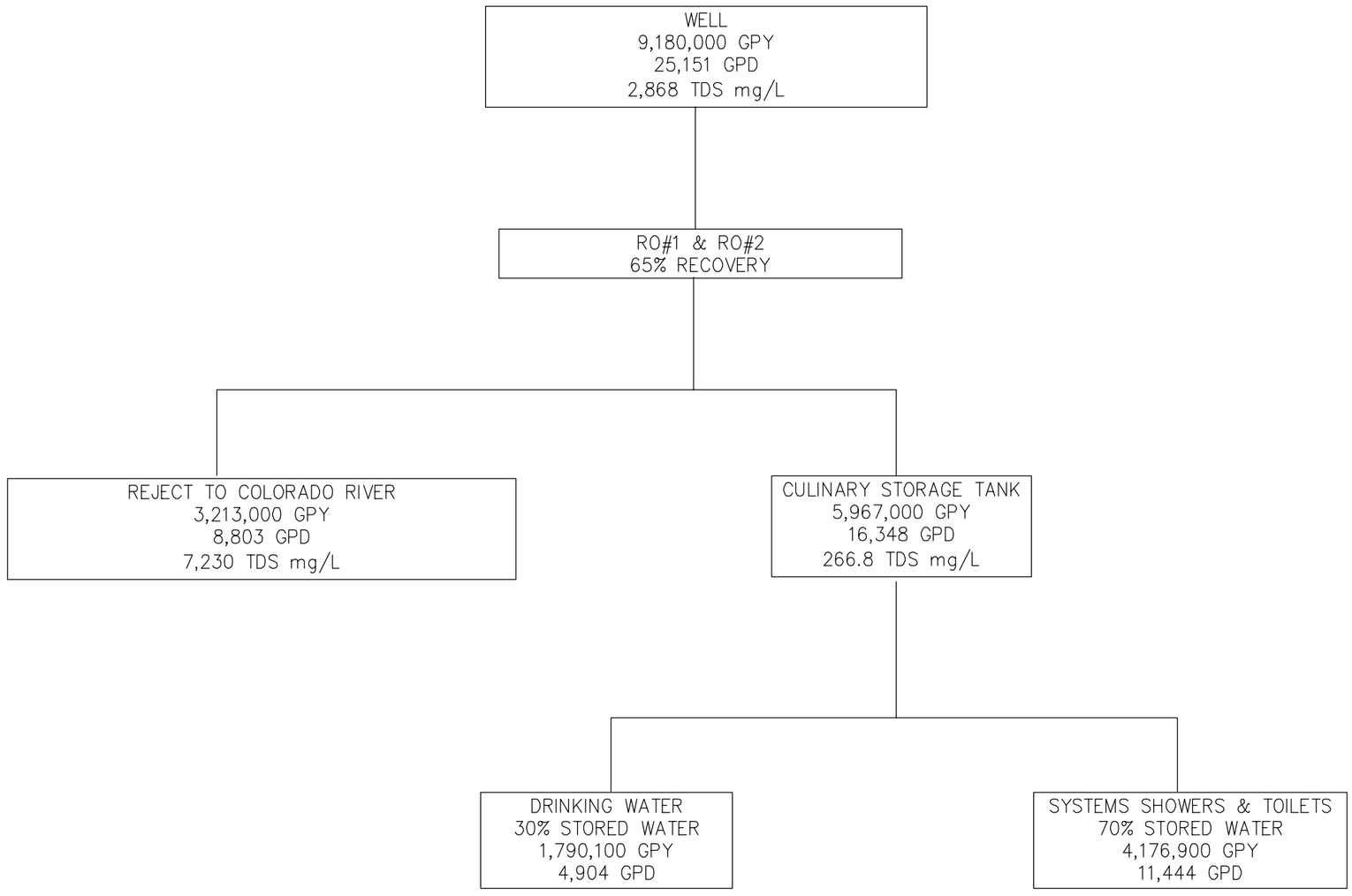
* See note at conclusion of 40 CFR 122, Appendix D (1983) for explanation of effect of suspensions on testing requirements for primary industry categories

† The pollutants in each fraction are listed in Table B

X Testing is required

☐ Testing is not required

SCENARIO 2 65% RECOVERY



TOTAL SYSTEM USE: 5,967,000 GPY

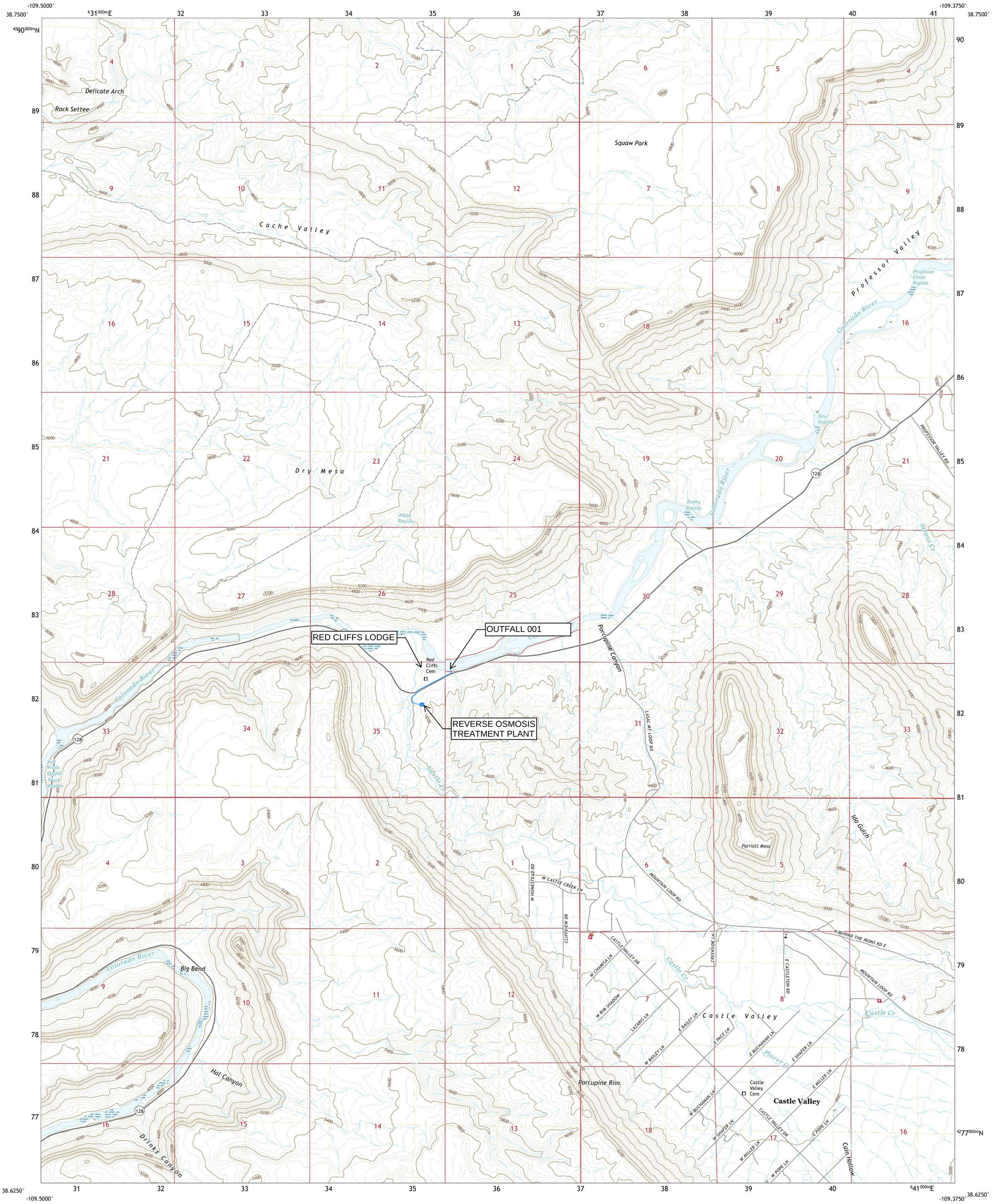
TOTAL REJECTED: 3,213,000 GPY

SUNRISE ENGINEERING
25 EAST 500 NORTH
FILLMORE, UTAH 84631
TEL 435.743.6151 • FAX 435.743.7900
www.sunrise-eng.com

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

BIG BEND QUADRANGLE
UTAH - GRAND COUNTY
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 12S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	July 2016 - October 2016
Roads	U.S. Census Bureau,	2016
Names	GNIS,	1979 - 2019
Hydrography	National Hydrography Dataset,	1899 - 2019
Contours	National Elevation Dataset,	2000
Boundaries	Multiple sources; see metadata file	2017 - 2018
Public Land Survey System	BLM,	2019
Wetlands	FWS National Wetlands Inventory	1980 - 1986

MN
GN
10°0'
178 MILS
0°59'
17 MILS
UTM GRID AND 2019 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
XH
Grid Zone Designation
12S

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 MILES 1
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 40 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.18

UTAH
QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

1 Mollie Hogans
2 Cisco SW
3 Dewey
4 The Windows Section
5 Fisher Towers
6 Moab
7 Rill Creek
8 Warner Lake
ADJOINING QUADRANGLES

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

BIG BEND, UT
2020

USGS
science for a changing world

ISBN 9780163990978
USGS REF NO. USGSX24K3633

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table A. Conventional and Non-Conventional Pollutants[1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent				Intake (optional)	
					Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
☐	Check here if you have applied to Utah DWQ for a waiver for ***all*** of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☑	Concentration	☐						
			Mass	☐						
2.	Chemical oxygen demand (COD)	☑	Concentration	☐						
			Mass	☐						
3.	Total organic carbon (TOC)	☑	Concentration	☐						
			Mass	☐						
4.	Total suspended solids (TSS)	☑	Concentration	☐						
			Mass	☐						
5.	Ammonia (as N)	☑	Concentration	☐						
			Mass	☐						
6.	Flow	☐	Rate	☑	10000 GPD	300000 Gal/I	8083 GPD	Estimate		
7.	Temperature (winter)	☑	Fahrenheit	☐						
	Temperature (summer)	☑	Fahrenheit	☐						
8.	pH (minimum)	☑	Standard units	SU						
	pH (maximum)	☑	Standard units	SU						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.	Antimony, Total (7440-36-0)	☐	☑	☐	Concentration	☐						
					Mass	☐						
2.	Arsenic, Total (7440-38-0)	☐	☑	☐	Concentration	☐						
					Mass	☐						
3.	Beryllium, Total (7440-41-7)	☐	☑	☐	Concentration	☐						
					Mass	☐						
4.	Cadmium, Total (7440-43-9)	☐	☑	☐	Concentration	☐						
					Mass	☐						
5.	Chromium, Total (7440-47-3)	☐	☑	☐	Concentration	☐						
					Mass	☐						
6.	Copper, Total (7440-50-8)	☐	☑	☐	Concentration	☐						
					Mass	☐						
7.	Lead, Total (7439-92-1)	☐	☑	☐	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

Concentrations of metals are believed to be small enough that they do not pose a health threat.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 1. Toxic Metals, Cyanide, and Total Phenols *continued*												
8.	Mercury, Total (7439-97-6)	☐	☑	☐	Concentration	☐						
					Mass	☐						
9.	Nickel, Total (7440-02-0)	☐	☑	☐	Concentration	☐						
					Mass	☐						
10.	Selenium, Total (7782-49-2)	☐	☑	☐	Concentration	☐						
					Mass	☐						
11.	Silver, Total (7440-22-4)	☐	☑	☐	Concentration	☐						
					Mass	☐						
12.	Thallium, Total (7440-28-0)	☐	☑	☐	Concentration	☐						
					Mass	☐						
13.	Zinc, Total (7440-66-6)	☐	☑	☐	Concentration	☐						
					Mass	☐						
14.	Cyanide, Total (57-12-5)	☐	☑	☐	Concentration	☐						
					Mass	☐						
15.	Phenols, Total	☐	☑	☐	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

Concentrations of metals are believed to be small enough that they do not pose a health threat.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds)												
1.	Acrolein (107-02-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	Acrylontrile (107-13-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	Benzene (71-43-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	Bromoform (75-25-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	Carbon tetrachloride (56-23-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	Chlorobenzene (108-90-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	Chlorodibrompmethane (124-48-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	Chloroethane (75-00-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds) ***continued***												
9.	2-chloroethylvinyl either (110-75-80)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Chloroform (67-66-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	Dichlorobromomethane (75-27-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
12.	1,1-dichloroethane (75-34-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	1,2-dichloroethane (78-875)	☐	☐	☑	Concentration	☐						
					Mass	☐						
14.	1,1-dichloroethylene (75-35-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
15.	1,2-dichloropropane (78-87-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
16.	1,3-dichloropropylene (542-75-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds) ***continued***												
17.	Ethylbenzene (100-41-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
18.	Methyl bromide (74-83-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
19.	Methyl chloride (74-87-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
20.	Methylene chloride (75-09-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
21.	1,1,2,2-tetrachloroethane (79-34-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
22.	Tetrachloroethlyne (127-18-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
23.	Toluene (108-88-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
24.	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 2. Organic Toxic Pollutants (GC/MS Fraction – Volatile Compounds) ***continued***												
25.	1,1,1-trichloroethane (71-55-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
26.	1,1,2-trichloroethane (79-00-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
27.	Trichloroethylene (79-01-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
28.	Vinyl chloride (75-01-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

Continue to Section 3

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 3. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Acid Compounds)												
1.	2-chlorophenol (95-57-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	2,4-dichlorophenol (120-83-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	2,4-dimethylphenol (105-67-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	2-nitrophenol (88-75-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	4-nitrophenol (100-02-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	p-chloro-m-cresol (59-50-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 3. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Acid Compounds) ***continued***												
9.	Pentachlorophenol (87-86-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Phenol (108-95-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	2,4,6-trichlorophenol (88-05-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

Continue to Section 4

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds)												
1.	Acenaphthene (83-32-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	Acenaphthylene (208-96-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	Anthracene (120-12-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	Benzidine (92-97-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	Benzo (a) anthracene (56-55-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	Benzo (a) pyrene (50-32-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	3,4-benzofluoranthene (205-99-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	Benzo (ghi) perylene (191-24-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
9.	Benzo (k) fluoranthene (207-08-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
12.	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	Bis (2-ethylhexyl) phthalate (85-68-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
14.	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
15.	Butyl benzyl phthalate (85-68-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
16.	2-chlorophthalene (91-58-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
17.	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
18.	Chrysene (218-01-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
19.	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
20.	1,2-dichlorobenzene (95-50-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
21.	1,3-dichlorobenzene (541-73-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
22.	1,4-dichlorobenzene (106-46-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
23.	3,3-dichlorobenzidine (91-94-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
24.	Diethyl phthalate (84-66-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
25.	Dimethyl phthalate (131-11-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
26.	Di-n-butyl phthalate (84-74-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
27.	2,4-dinotrotoluene (121-14-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
28.	2,6-dinotrotoluene (121-14-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
29.	Di-n-octyl phthalate (117-84-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
30.	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
31.	Fluoranthene (206-44-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
32.	Fluorene (86-37-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
33.	Hexachlorobenzene (118-74-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
34.	Hexachlorobutadiene (87-68-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
35.	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
36.	Hexachloroethane (67-72-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
37.	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
38.	Isophorone (78-59-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
39.	Naphthalene (91-20-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
40.	Nitrobenzene (98-95-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 4. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Base/Neutral Compounds) ***continued***												
41.	N-nitrosodimethylamine (62-75-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
42.	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
43.	N-nitrosodiphenylamine (86-30-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
44.	Phenanthrene (85-01-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
45.	Pyrene (129-00-0)	☐	☐	☑	Concentration	☐						
					Mass	☐						
46.	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

Continue to Section 5

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
1.	Aldrin (309-00-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
2.	α-BHC (319-84-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
3.	β-BHC (319-85-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
4.	γ-BHC (58-89-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
5.	δ-BHC (319-86-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
6.	Chlorodane (57-74-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
7.	4,4'-DDT (50-29-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
8.	4,4'-DDE (72-55-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
9.	4,4'-DDD (72-54-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
10.	Dieldrin (60-57-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
11.	α-endosulfan (115-29-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
12.	β-endosulfan (115-29-7)	☐	☐	☑	Concentration	☐						
					Mass	☐						
13.	Endosulfan sulfate (1031-07-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
14.	Endrin (72-20-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						
15.	Endrin aldehyde (7421-93-4)	☐	☐	☑	Concentration	☐						
					Mass	☐						
16.	Heptachlor (76-44-8)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
17.	Heptachlor epoxide (1024-57-3)	☐	☐	☑	Concentration	☐						
					Mass	☐						
18.	PCB-1242 (53469-21-9)	☐	☐	☑	Concentration	☐						
					Mass	☐						
19.	PCB-1254 (11097-69-1)	☐	☐	☑	Concentration	☐						
					Mass	☐						
20.	PCB-1221 (11104-28-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						
21.	PCB-1232 (11141-16-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
22.	PCB-1248 (12672-29-6)	☐	☐	☑	Concentration	☐						
					Mass	☐						
23.	PCB-1260 (11096-82-5)	☐	☐	☑	Concentration	☐						
					Mass	☐						
24.	PCB-1016 (12674-11-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
Section 5. Organic Toxic Pollutants (Gas Chromatography/Mass Spectrometry (GS/MS) Fraction – Pesticides) ***continued***												
25.	Toxaphene (8001-35-2)	☐	☐	☑	Concentration	☐						
					Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table C. Certain Conventional and Non-Conventional Pollutants [1]

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
☐	Check here if you believe all pollutants on Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each pollutant.*										
☐	Check here if you believe all pollutants on Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each pollutant.*										
1.	Bromide (24959-67-9)	☐	☑	Concentration	☐						
				Mass	☐						
2.	Chlorine, total residual	☐	☑	Concentration	☐						
				Mass	☐						
3.	Color	☐	☑	Concentration	☐						
				Mass	☐						
4.	E.coli	☐	☑	Concentration	☐						
				Mass	☐						
5.	Fluoride (16984-48-8)	☐	☑	Concentration	☐						
				Mass	☐						
6.	Nitrate	☑	☐	Concentration	☑	.15 mg/L	.15 mg/L	.122 mg/L	5	.122 mg/L	5
				Mass	☐						
7.	Nitrite	☐	☑	Concentration	☐						
				Mass	☐						
8.	Nitrogen, total organic (as N)	☐	☑	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table C. Certain Conventional and Non-Conventional Pollutants [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
9.	Oil and Grease	☐	☑	Concentration	☐						
				Mass	☐						
10.	Phosphorus (as P), total (7723-14-0)	☐	☑	Concentration	☐						
				Mass	☐						
11.	Sulfate (as SO_4) (14808-798-)	☑	☐	Concentration	☑	1200 mg/L	1200 mg/L	936 mg/L	4	936 mg/L	4
				Mass	☐						
12.	Sulfide (as S)	☑	☐	Concentration	☑	.001 mg/L	.001 mg/L	<.001 mg/L	4	<.001 mg/L	4
				Mass	☐						
13.	Sulfite (as SO_3) (14265-45-3)	☐	☑	Concentration	☐						
				Mass	☐						
14.	Surfactants	☐	☑	Concentration	☐						
				Mass	☐						
15.	Aluminum, total (7429-90-5)	☐	☑	Concentration	☐						
				Mass	☐						
16.	Barium, total (7440-39-3)	☐	☑	Concentration	☐						
				Mass	☐						
17.	Boron, total (7440-42-8)	☐	☑	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table C. Certain Conventional and Non-Conventional Pollutants [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
18.	Cobalt, total (7440-48-4)	☐	☑	Concentration	☐						
				Mass	☐						
19.	Iron, total (7439-89-6)	☐	☑	Concentration	☐						
				Mass	☐						
20.	Magnesium, total (7439-95-4)	☐	☑	Concentration	☐						
				Mass	☐						
21.	Molybdenum, total (7439-95-4)	☐	☑	Concentration	☐						
				Mass	☐						
22.	Manganese, total (7439-95-5)	☐	☑	Concentration	☐						
				Mass	☐						
23.	Tin, total (7440-31-5)	☐	☑	Concentration	☐						
				Mass	☐						
24.	Titanium, total (7440-32-6)	☐	☑	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table C. Certain Conventional and Non-Conventional Pollutants [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
		Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average	Number of Analyses
25.	Radioactivity										
	Alpha, total	☐	☑	Concentration	☐						
				Mass	☐						
	Beta, total	☐	☑	Concentration	☐						
				Mass	☐						
	Radium, total	☐	☑	Concentration	☐						
				Mass	☐						
	Radium 226, total	☐	☑	Concentration	☐						
				Mass	☐						

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table D. Certain Hazardous Substances and Asbestos [1]

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	24-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic aicd	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acied)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-triclorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Table D. Certain Hazardous Substances and Asbestos [1] *continued*

	Pollutant/Parameter (and CAS Number, if available)	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
76.	Vandium	☐	☑		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zioconium	☐	☑		

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required 40 CFR chapter I, subchapter N or O.

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	

Hazardous Substances

1. Acetaldehyde
2. Acetic acid
3. Acetic anhydride
4. Acetone cyanohydrin
5. Acetyl bromide
6. Acetyl chloride
7. Acrolein
8. Acrylonitrile
9. Adipic acid
10. Aldrin
11. Allyl alcohol
12. Allyl chloride
13. Aluminum sulfate
14. Ammonia
15. Ammonium acetate
16. Ammonium benzoate
17. Ammonium bicarbonate
18. Ammonium bichromate
19. Ammonium bifluoride
20. Ammonium bisulfite
21. Ammonium carbamate
22. Ammonium carbonate
23. Ammonium chloride
24. Ammonium chromate
25. Ammonium citrate
26. Ammonium fluoroborate
27. Ammonium fluoride
28. Ammonium hydroxide
29. Ammonium oxalate
30. Ammonium silicofluoride
31. Ammonium sulfamate
32. Ammonium sulfide
33. Ammonium sulfite
34. Ammonium tartrate
35. Ammonium thiocyanate
36. Ammonium thiosulfate
37. Amyl acetate
38. Aniline
39. Antimony pentachloricle
40. Antimony potassium tartrate
41. Antimony tribromide
42. Antimony trichloride
43. Antimony trifluoride
44. Antimony trioxide
45. Arsenic disulfide
46. Arsenic pentoxide
47. Arsenic trichloride
48. Arsenic trioxide
49. Arsenic trisulfide
50. Barium cyanide
51. Benzene
52. Benzoic acid
53. Benzonitrile
54. Benzoyl chloride
55. Benzyl chloride
56. Beryllium chloride
57. Beryllium fluoride
58. Beryllium nitrate
59. Butylacetate
60. n-butylphthalate
61. Butylamine
62. Butyric acid
63. Cadmium acetate
64. Cadmium bromide
65. Cadmium chloride
66. Calcium arsenate
67. Calcium arsenite
68. Calcium carbide
69. Calcium chromate
70. Calcium cyanide
71. Calcium dodecylbenzenesulfonate
72. Calcium hypochlorite
73. Captan
74. Carbaryl
75. Carbofuran
76. Carbon disulfide
77. Carbon tetrachloride
78. Chlordane
79. Chlorine
80. Chlorobenzene
81. Chloroform
82. Chloropyrifos
83. Chlorosulfonic acid
84. Chromic acetate
85. Chromic acid
86. Chromic sulfate
87. Chromous chloride
88. Cobaltous bromide
89. Cobaltous formate
90. Cobaltous sulfamate
91. Coumaphos
92. Cresol
93. Crotonaldehyde
94. Cupric acetate
95. Cupric acetoarsenite
96. Cupric chloride
97. Cupric nitrate
98. Cupric oxalate
99. Cupric sulfate
100. Cupric sulfate ammoniated
101. Cupric tartrate
102. Cyanogen chloride
103. Cyclohexane
104. 2,4-D acid (2,4-dichlorophenoxyacetic acid)
105. 2,4-D esters (2,4-dichlorophenoxyacetic acid esters)
106. DDT
107. Diazinon
108. Dicamba
109. Dichlobenil
110. Dichlone
111. Dichlorobenzene
112. Dichloropropane
113. Dichloropropene
114. Dichloropropene-dichloproropane mix
115. 2,2-dichloropropionic acid
116. Dichlorvos
117. Dieldrin
118. Diethylamine
119. Dimethylamine
120. Dinitrobenzene
121. Dinitrophenol
122. Dinitrotoluene
123. Diquat
124. Disulfoton
125. Diuron
126. Dodecylbenzesulfonic acid
127. Endosulfan
128. Endrin
129. Epichlorohydrin
130. Ethion
131. Ethylbenzene
132. Ethylenediamine
133. Ethylene dibromide
134. Ethylene dichloride
135. Ethylene diaminetetracetic acid (EDTA)
136. Ferric ammonium citrate
137. Ferric ammonium oxalate
138. Ferric chloride
139. Ferric fluoride
140. Ferric nitrate
141. Ferric sulfate
142. Ferrous ammonium sulfate
143. Ferrous chloride
144. Ferrous sulfate
145. Formaldehyde
146. Formic acid
147. Fumaric acid
148. Furfural
149. Guthion
150. Heptachlor
151. Hexachlorocyclopentadiene
152. Hydrochloric acid
153. Hydrofluoric acid
154. Hydrogen cyanide
155. Hydrogen sulfide
156. Isoprene
157. Isopropanolamine dodecylbenzenesulfonate
158. Kelthane
159. Kepone
160. Lead acetate
161. Lead arsenate
162. Lead chloride
163. Lead fluoborate
164. Lead fluorite
165. Lead iodide
166. Lead nitrate
167. Lead stearate
168. Lead sulfate
169. Lead sulfide
170. Lead thiocyanate
171. Lindane
172. Lithium chromate
173. Malathion
174. Maleic acid
175. Maleic anhydride
176. Mercaptodimethur
177. Mercuric cyanide
178. Mercuric nitrate
179. Mercuric sulfate
180. Mercuric thiocyanate
181. Mercurous nitrate
182. Methoxychlor
183. Methyl mercaptan
184. Methyl methacrylate
185. Methyl parathion
186. Mevinphos
187. Mexacarbate
188. Monoethylamine
189. Monomethylamine
190. Naled
191. Naphthalene
192. Naphthenic acid
193. Nickel ammonium sulfate
194. Nickel chloride
195. Nickel hydroxide
196. Nickel nitrate
197. Nickel sulfate
198. Nitric acid
199. Nitrobenzene
200. Nitrogen dioxide
201. Nitrophenol
202. Nitrotoluene
203. Paraformaldehyde
204. Parathion
205. Pentachlorophenol
206. Phenol
207. Phosgene
208. Phosphoric acid
209. Phosphorus
210. Phosphorus oxychloride
211. Phosphorus pentasulfide
212. Phosphorus trichloride
213. Polychlorinated biphenyls (PCB)
214. Potassium arsenate
215. Potassium arsenite
216. Potassium bichromate
217. Potassium chromate
218. Potassium cyanide
219. Potassium hydroxide
220. Potassium permanganate
221. Propargite
222. Propionic acid
223. Propionic anhydride
224. Propylene oxide
225. Pyrethrins
226. Quinoline
227. Resorcinol
228. Selenium oxide
229. Silver nitrate
230. Sodium
231. Sodium arsenate
232. Sodium arsenite
233. Sodium bichromate
234. Sodium bifluoride
235. Sodium bisulfite
236. Sodium chromate
237. Sodium cyanide
238. Sodium dodecylbenzenesulfonate
239. Sodium fluoride
240. Sodium hydrosulfide
241. Sodium hydroxide
242. Sodium hypochlorite
243. Sodium methylate
244. Sodium nitrite
245. Sodium phosphate (dibasic)
246. Sodium phosphate (tribasic)
247. Sodium selenite
248. Strontium chromate
249. Strychnine
250. Styrene
251. Sulfuric acid
252. Sulfur monochloride
253. 2,4,5-T acid (2,4,5-trichlorophenoxyacetic acid)
254. 2,4,5-T amines (2,4,5-trichlorophenoxy acetic acid amines)
255. 2,4,5-T esters (2,4,5-trichlorophenoxy acetic acid esters)
256. 2,4,5-T salts (2,4,5-trichlorophenoxy acetic acid salts)
257. 2,4,5-TP acid (2,4,5-trichlorophenoxy propanoic acid)
258. 2,4,5-TP acid esters (2,4,5-trichlorophenoxy propanoic acid esters)
259. TDE (tetrachlorodiphenyl ethane)
260. Tetraethyl lead
261. Tetraethyl pyrophosphate
262. Thallium sulfate
263. Toluene
264. Toxaphene
265. Trichlorofon
266. Trichloroethylene
267. Trichlorophenol
268. Triethanolamine dodecylbenzenesulfonate
269. Triethylamine
270. Trimethylamine
271. Uranyl acetate
272. Uranyl nitrate
273. Vanadium penoxide
274. Vanadyl sulfate
275. Vinyl acetate
276. Vinylidene chloride
277. Xylene
278. Xylenol
279. Zinc acetate
280. Zinc ammonium chloride
281. Zinc borate
282. Zinc bromide
283. Zinc carbonate
284. Zinc chloride
285. Zinc cyanide
286. Zinc fluoride
287. Zinc formate
288. Zinc hydrosulfite
289. Zinc nitrate
290. Zinc phenolsulfonate
291. Zinc phosphide
292. Zinc silicofluoride
293. Zinc sulfate
294. Zirconium nitrate
295. Zirconium potassium fluoride
296. Zirconium sulfate
297. Zirconium tetrachloride

UTAH DEPARTMENT of ENVIRONMENTAL QUALITY
WATER QUALITY

Division of Water Quality (DWQ)
UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name	Red Cliffs Lodge	Outfall Number	001

Table E. 2,3,7,8 Tetrachlorodibenzo P Dioxin (2,3,7,8 TCDD)					
	Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
			Believed Present	Believed Absent	
1.	2,3,7,8-TCDD	☐	☐	☑	