

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY
SALT LAKE CITY, UTAH

UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM (UPDES) PERMITS

Minor Industrial Permit No. **UT0026166**

In compliance with provisions of the Utah *Water Quality Act, Title 19, Chapter 5, Utah Code Annotated ("UCA") 1953, as amended (the "Act")*,

RED CLIFFS LODGE

is hereby authorized to discharge from its wastewater treatment facility to receiving waters named **the COLORADO RIVER**,

in accordance with specific limitations, outfalls, and other conditions set forth herein.

This permit shall become effective on June 1st, 2021.

This permit expires at midnight on May 31st, 2026.

Signed this 31st day of May, 2021.



Erica Brown Gaddis, PhD
Director

DWQ-2021-002046

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I. DISCHARGE LIMITATIONS AND REPORTING REQUIREMENTS

A. Description of Discharge Points. The authorization to discharge wastewater provided under this part is limited to those outfalls specifically designated below as discharge locations. Discharges at any location not authorized under a UPDES permit are violations of the *Act* and may be subject to penalties under the *Act*. Knowingly discharging from an unauthorized location or failing to report an unauthorized discharge may be subject to criminal penalties as provided under the *Act*.

<u>Outfall Number</u>	<u>Location of Discharge Outfall</u>
001	Located at latitude 38°40'47" and longitude 109°26'38". The discharge is through an 8-inch pipe to the Colorado River.

B. Narrative Standard. It shall be unlawful, and a violation of this permit, for the permittee to discharge or place any waste or other substance in such a way as will be or may become offensive such as unnatural deposits, floating debris, oil, scum, or other nuisances such as color, odor or taste, or cause conditions which produce undesirable aquatic life or which produce objectionable tastes in edible aquatic organisms; or result in concentrations or combinations of substances which produce undesirable physiological responses in desirable resident fish, or other desirable aquatic life, or undesirable human health effects, as determined by a bioassay or other tests performed in accordance with standard procedures.

C. Specific Limitations and Self-Monitoring Requirements.

1. Effective immediately, and lasting through the life of this permit, there shall be no acute or chronic toxicity in Outfall(s) 001 as defined in *Part VIII*, and determined by test procedures described in *Part VIII* of this permit.
2. Effective immediately and lasting the duration of this permit, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below:

Parameter	Effluent Limitations *a				
	Maximum Monthly Avg	Maximum Weekly Avg	Yearly Average	Daily Minimum	Daily Maximum
Total Flow, GPD	36,000	--	--	--	--
TDS, tons/day *b, *c	--	--	--	--	1.0
pH, Standard Units	--	--	--	6.5	9.0
Oil & Grease, mg/L	--	--	--	--	10.0

Self-Monitoring and Reporting Requirements *a			
Parameter	Frequency	Sample Type	Units
Total Flow *b, *c	Continuous	Recorder	gpd
pH	Monthly	Grab	SU
Oil & Grease *d	When Sheen Observed	Grab	mg/L
TDS, mg/L *e	Monthly	Grab	mg/L
Selenium *f	Monthly	Grab	mg/L
Metals. *g	Quarterly	Grab	mg/L

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

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WASTEWATER

- *b Flow measurements of influent/effluent volume shall be made in such a manner that the permittee can affirmatively demonstrate that representative values are being obtained.
- *c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.
- *d Oil & Grease sampled when sheen is present or visible. If no sheen is present or visible, report NA.
- *e The effluent shall not exceed 1 ton/day salt loading, or 366 tons/year.
- *f Selenium monitoring will be required for the first year of the permit to evaluate the reasonable potential to exceed requirements for the Colorado River TMDL for dissolved Selenium. If the facility demonstrates reasonable potential to exceed selenium requirements the permit may be reopened and modified at that time to add a numeric effluent limit.
- *g The following metals should be monitored for Reasonable Potential for the first permit cycle. After at least 10 samples have been collected, the facility can request RP be run to evaluate the facilities reasonable potential to discharge these pollutants.

Metals to be Monitored for RP		
Parameter	Sample Type	Units
Total Arsenic	Grab	mg/L
Total Cadmium	Grab	mg/L
Total Chromium	Grab	mg/L
Total Copper	Grab	mg/L
Total Cyanide	Grab	mg/L
Total Lead	Grab	mg/L
Total Mercury	Grab	mg/L
Total Nickel	Grab	mg/L
Total Silver	Grab	mg/L
Total Zinc	Grab	mg/L

3. Reporting of Wastewater Monitoring Results Monitoring results obtained during the previous month shall be summarized for each month and reported on a Discharge Monitoring Report Form (EPA No. 3320-1)* or by NetDMR, post-marked or entered into NetDMR no later than the 28th day of the month following the completed reporting period. The first report is due on July 28, 2021. If no discharge occurs during the reporting period, “no discharge” shall be reported. Legible copies of these, and all other reports including whole effluent toxicity (WET) test reports required herein, shall be signed and certified in accordance with the requirements of *Signatory Requirements (see Part VII.G)*, and submitted by NetDMR, or to the Division of Water Quality at the following address:

Department of Environmental Quality
Division of Water Quality
PO Box 144870
Salt Lake City, Utah 84114-4870

* Starting January 1, 2017 monitoring results must be submitted using NetDMR unless the permittee has successfully petitioned for an exception.

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PRETREATMENT

II. INDUSTRIAL PRETREATMENT REQUIREMENTS

- A. Definitions. For this section the following definitions shall apply:
1. *Publicly Owned Treatment Works* or *POTW* means a treatment works as defined by section 212 of the CWA, which is owned by a State or municipality (as defined by section 502(4) of the CWA). This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in section 502(4) of the CWA, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment works.
- B. Discharges to a POTW. Any process wastewater that the facility may discharge to the sanitary sewer, either as direct discharge or as hauled waste, is subject to federal, state and local pretreatment regulations. Pursuant to Section 307 of the Clean Water Act, the permittee shall comply with all applicable Federal General Pretreatment Regulations promulgated, found in 40 CFR Part 403, the State Pretreatment Requirements found in UAC R317-8-8, and any specific local discharge limitations developed by the Publicly Owned Treatment Works (POTW) accepting the waste.
- C. Hazardous Waste Requirements. In accordance with 40 CFR Part 403.12(p)(1), the permittee must notify the POTW, the EPA Regional Waste Management Director, and the State hazardous waste authorities, in writing, if they discharge any substance into a POTW which if otherwise disposed of would be considered a hazardous waste under 40 CFR Part 261. This notification must include the name of the hazardous waste, the EPA hazardous waste number, and the type of discharge (continuous or batch).
- D. Hauled Hazardous Waste. Hauled hazardous waste shall not be discharged to a POTW without notification to the Division of Water Quality.

III. BIOSOLIDS REQUIREMENTS

- A. Biosolids Treatment and Disposal. The State of Utah has adopted the 40 CFR 503 federal regulations for the disposal of sewage sludge (biosolids) by reference. However, this facility does not receive, generate, treat or dispose of biosolids. Therefore 40 CFR 503 does not apply. As a result, there are no specific biosolids requirements in this permit.

PART IV
STORM WATER PERMIT

IV. STORM WATER REQUIREMENTS.

- A. Construction Storm Water Permit. Any construction at the facility that disturbs an acre or more of land, including less than an acre if it is part of a common plan of development or sale, is required to obtain coverage under the UPDES Construction General Storm Water Permit (UTRC00000). Permit coverage must be obtained prior to land disturbance. If the site qualifies, a Low Erosivity Waiver (LEW) Certification may be submitted instead of permit coverage.

V. MONITORING, RECORDING & GENERAL REPORTING REQUIREMENTS

- A. Representative Sampling. Samples taken in compliance with the monitoring requirements established under *Part I* shall be collected from the effluent stream prior to discharge into the receiving waters. Samples and measurements shall be representative of the volume and nature of the monitored discharge. Samples of biosolids shall be collected at a location representative of the quality of biosolids immediately prior to the use-disposal practice.
- B. Monitoring Procedures. Monitoring must be conducted according to test procedures approved under *Utah Administrative Code ("UAC") R317-2-10 and 40CFR Part 503*, unless other test procedures have been specified in this permit.
- C. Penalties for Tampering. The *Act* provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- D. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.
- E. Additional Monitoring by the Permittee. If the permittee monitors any parameter more frequently than required by this permit, using test procedures approved under *UAC R317-2-10 and 40 CFR 503* or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or the Biosolids Report Form. Such increased frequency shall also be indicated. Only those parameters required by the permit need to be reported.
- F. Records Contents. Records of monitoring information shall include:
1. The date, exact place, and time of sampling or measurements;
 2. The individual(s) who performed the sampling or measurements;
 3. The date(s) and time(s) analyses were performed;
 4. The individual(s) who performed the analyses;
 5. The analytical techniques or methods used; and,
 6. The results of such analyses.
- G. Retention of Records. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time. A copy of this UPDES permit must be maintained on site during the duration of activity at the permitted location
- H. Twenty-four Hour Notice of Noncompliance Reporting.
1. The permittee shall (orally) report any noncompliance including transportation accidents, spills, and uncontrolled runoff from biosolids transfer or land application sites which may seriously endanger health or environment, as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of circumstances. The report shall be made to the Division of Water Quality, (801) 536-4300, or 24-hour answering service (801) 536-4123.

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2. The following occurrences of noncompliance shall be reported by telephone (801) 536-4300 as soon as possible but no later than 24 hours from the time the permittee becomes aware of the circumstances:
 - a. Any noncompliance which may endanger health or the environment;
 - b. Any unanticipated bypass, which exceeds any effluent limitation in the permit (See *Part VI.G, Bypass of Treatment Facilities.*);
 - c. Any upset which exceeds any effluent limitation in the permit (See *Part VI.H, Upset Conditions.*);
 - d. Violation of a daily discharge limitation for any of the pollutants listed in the permit; or,
 - e. Violation of any of the Table 3 metals limits, the pathogen limits, the vector attraction reduction limits or the management practices for biosolids that have been sold or given away.
3. A written submission shall also be provided within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times;
 - c. The estimated time noncompliance is expected to continue if it has not been corrected;
 - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance; and,
 - e. Steps taken, if any, to mitigate the adverse impacts on the environment and human health during the noncompliance period.
4. The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours by the Division of Water Quality, (801) 536-4300.
5. Reports shall be submitted to the addresses in *Part I.D, Reporting of Monitoring Results.*
- I. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours shall be reported at the time that monitoring reports for *Part I.D* are submitted. The reports shall contain the information listed in *Part V.H.3*
- J. Inspection and Entry The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit, including but not limited to, biosolids treatment, collection, storage facilities or area, transport vehicles and containers, and land application sites;

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4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the *Act*, any substances or parameters at any location, including, but not limited to, digested biosolids before dewatering, dewatered biosolids, biosolids transfer or staging areas, any ground or surface waters at the land application sites or biosolids, soils, or vegetation on the land application sites; and,
5. The permittee shall make the necessary arrangements with the landowner or leaseholder to obtain permission or clearance, the Director, or authorized representative, upon the presentation of credentials and other documents as may be required by law, will be permitted to enter without delay for the purposes of performing their responsibilities.

VI. COMPLIANCE RESPONSIBILITIES

- A. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.
- B. Penalties for Violations of Permit Conditions. The *Act* provides that any person who violates a permit condition implementing provisions of the *Act* is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions or the Act is subject to a fine not exceeding \$25,000 per day of violation. Any person convicted under *UCA 19-5-115(2)* a second time shall be punished by a fine not exceeding \$50,000 per day. Except as provided at *Part VI.G, Bypass of Treatment Facilities* and *Part VI.H, Upset Conditions*, nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.
- C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment. The permittee shall also take all reasonable steps to minimize or prevent any land application in violation of this permit.
- E. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- F. Removed Substances. Collected screening, grit, solids, sludge, or other pollutants removed in the course of treatment shall be disposed of in such a manner so as to prevent any pollutant from entering any waters of the state or creating a health hazard. Sludge/digester supernatant and filter backwash shall not directly enter either the final effluent or waters of the state by any other direct route.
- G. Bypass of Treatment Facilities.
1. Bypass Not Exceeding Limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to paragraph 2 and 3 of this section.
 2. Prohibition of Bypass.
 - a. Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:

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- (1) Bypass was unavoidable to prevent loss of human life, personal injury, or severe property damage;
 - (2) There were no feasible alternatives to bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance, and
 - (3) The permittee submitted notices as required under *section VI.G.3*.
- b. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in *sections VI.G.2.a (1), (2) and (3)*.
3. Notice.
- a. *Anticipated bypass*. Except as provided above in *section VI.G.2* and below in *section VI.G.3.b*, if the permittee knows in advance of the need for a bypass, it shall submit prior notice, at least ninety days before the date of bypass. The prior notice shall include the following unless otherwise waived by the Director:
 - (1) Evaluation of alternative to bypass, including cost-benefit analysis containing an assessment of anticipated resource damages;
 - (2) A specific bypass plan describing the work to be performed including scheduled dates and times. The permittee must notify the Director in advance of any changes to the bypass schedule;
 - (3) Description of specific measures to be taken to minimize environmental and public health impacts;
 - (4) A notification plan sufficient to alert all downstream users, the public and others reasonably expected to be impacted by the bypass;
 - (5) A water quality assessment plan to include sufficient monitoring of the receiving water before, during and following the bypass to enable evaluation of public health risks and environmental impacts; and,
 - (6) Any additional information requested by the Director.
 - b. *Emergency Bypass*. Where ninety days advance notice is not possible, the permittee must notify the Director, and the Director of the Department of Natural Resources, as soon as it becomes aware of the need to bypass and provide to the Director the information in *section VI.G.3.a.(1) through (6)* to the extent practicable.
 - c. *Unanticipated bypass*. The permittee shall submit notice of an unanticipated bypass to the Director as required under *Part IV.H, Twenty Four Hour Reporting*. The permittee shall also immediately notify the Director of the Department of Natural Resources, the public and downstream users and shall implement measures to minimize impacts to public health and environment to the extent practicable.

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H. Upset Conditions.

1. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of paragraph 2 of this section are met. Director's administrative determination regarding a claim of upset cannot be judiciously challenged by the permittee until such time as an action is initiated for noncompliance.
2. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required under *Part V.H, Twenty-four Hour Notice of Noncompliance Reporting*; and,
 - d. The permittee complied with any remedial measures required under *Part VI.D, Duty to Mitigate*.
3. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

VII. GENERAL REQUIREMENTS

- A. Planned Changes. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition could significantly change the nature or increase the quantity of parameters discharged or pollutant sold or given away. This notification applies to pollutants, which are not subject to effluent limitations in the permit. In addition, if there are any planned substantial changes to the permittee's existing sludge facilities or their manner of operation or to current sludge management practices of storage and disposal, the permittee shall give notice to the Director of any planned changes at least 30 days prior to their implementation.
- B. Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.
- C. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- D. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. The application shall be submitted at least 180 days before the expiration date of this permit.
- E. Duty to Provide Information. The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
- F. Other Information. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Director, it shall promptly submit such facts or information.
- G. Signatory Requirements. All applications, reports or information submitted to the Director shall be signed and certified.
 - 1. All permit applications shall be signed by either a principal executive officer or ranking elected official.
 - 2. All reports required by the permit and other information requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described above and submitted to the Director, and,
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. A duly authorized

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representative may thus be either a named individual or any individual occupying a named position.

3. Changes to authorization. If an authorization under *paragraph VII.G.2* is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of *paragraph VII.G.2* must be submitted to the Director prior to or together with any reports, information, or applications to be signed by an authorized representative.
4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified 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 for knowing violations."

- H. Penalties for Falsification of Reports. The *Act* provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000.00 per violation, or by imprisonment for not more than six months per violation, or by both.
- I. Availability of Reports. Except for data determined to be confidential under *UAC R317-8-3.2*, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of Director. As required by the *Act*, permit applications, permits and effluent data shall not be considered confidential.
- J. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the permittee of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under the *Act*.
- K. Property Rights. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. Severability. The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- M. Transfers. This permit may be automatically transferred to a new permittee if:
 1. The current permittee notifies the Director at least 20 days in advance of the proposed transfer date;

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2. The notice includes a written agreement between the existing and new permittee's containing a specific date for transfer of permit responsibility, coverage, and liability between them; and,
 3. The Director does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in paragraph 2 above.
- N. State or Federal Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by *UCA 19-5-117* and *Section 510* of the *Act* or any applicable Federal or State transportation regulations, such as but not limited to the Department of Transportation regulations.
- O. Water Quality - Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate effluent limitations and compliance schedule, if necessary, if one or more of the following events occurs:
1. Water Quality Standards for the receiving water(s) to which the permittee discharges are modified in such a manner as to require different effluent limits than contained in this permit.
 2. A final wasteload allocation is developed and approved by the State and/or EPA for incorporation in this permit.
 3. Revisions to the current CWA § 208 areawide treatment management plans or promulgations/revisions to TMDLs (40 CFR 130.7) approved by the EPA and adopted by DWQ which calls for different effluent limitations than contained in this permit.
- P. Biosolids – Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include the appropriate biosolids limitations (and compliance schedule, if necessary), management practices, other appropriate requirements to protect public health and the environment, or if there have been substantial changes (or such changes are planned) in biosolids use or disposal practices; applicable management practices or numerical limitations for pollutants in biosolids have been promulgated which are more stringent than the requirements in this permit; and/or it has been determined that the permittees biosolids use or land application practices do not comply with existing applicable state or federal regulations.
- Q. Toxicity Limitation - Reopener Provision. This permit may be reopened and modified (following proper administrative procedures) to include WET testing, a WET limitation, a compliance schedule, a compliance date, additional or modified numerical limitations, or any other conditions related to the control of toxicants if toxicity is detected during the life of this permit.
- R. Storm Water-Reopener Provision. At any time during the duration (life) of this permit, this permit may be reopened and modified (following proper administrative procedures) as per *UAC R317.8*, to include, any applicable storm water provisions and requirements, a storm water pollution prevention plan, a compliance schedule, a compliance date, monitoring and/or reporting requirements, or any other conditions related to the control of storm water discharges to "waters-of-State".

VIII. DEFINITIONS

A. Wastewater.

1. The "7-day (and weekly) average", other than for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria, and total coliform bacteria. The 7-day and weekly averages are applicable only to those effluent characteristics for which there are 7-day average effluent limitations. The calendar week, which begins on Sunday and ends on Saturday, shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for that calendar week shall be included in the data for the month that contains Saturday.
2. The "30-day (and monthly) average," other than for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria, is the arithmetic average of all samples collected during a consecutive 30-day period or calendar month, whichever is applicable. Geometric means shall be calculated for *E. coli* bacteria, fecal coliform bacteria and total coliform bacteria. The calendar month shall be used for purposes of reporting self-monitoring data on discharge monitoring report forms.
3. "Act," means the *Utah Water Quality Act*.
4. "Acute toxicity" occurs when 50 percent or more mortality is observed for either test species at any effluent concentration (lethal concentration or "LC₅₀").
5. "Annual Loading Cap" is the highest allowable phosphorus loading discharged over a calendar year, calculated as the sum of all the monthly loading discharges measured during a calendar year divided by the number of monthly discharges measured during that year.
6. "Bypass," means the diversion of waste streams from any portion of a treatment facility.
7. "Chronic toxicity" occurs when the IC₂₅ < XX% effluent. The XX% effluent is the concentration of the effluent in the receiving water, at the end of the mixing zone expressed as per cent effluent.
8. "IC₂₅" is the concentration of toxicant (given in % effluent) that would cause a 25% reduction in mean young per female, or a 25% reduction in overall growth for the test population.
9. "Composite Samples" shall be flow proportioned. The composite sample shall, as a minimum, contain at least four (4) samples collected over the compositing period. Unless otherwise specified, the time between the collection of the first sample and the last sample shall not be less than six (6) hours nor more than 24 hours. Acceptable methods for preparation of composite samples are as follows:
 - a. Constant time interval between samples, sample volume proportional to flow rate at time of sampling;

PART VIII
DISCHARGE PERMIT NO. UT0026166

- b. Constant time interval between samples, sample volume proportional to total flow (volume) since last sample. For the first sample, the flow rate at the time the sample was collected may be used;
 - c. Constant sample volume, time interval between samples proportional to flow (i.e., sample taken every “X” gallons of flow); and,
 - d. Continuous sample volume, with sample collection rate proportional to flow rate.
10. “CWA” means *The Federal Water Pollution Control Act*, as amended, by *The Clean Water Act of 1987*.
11. “Daily Maximum” (Daily Max.) is the maximum value allowable in any single sample or instantaneous measurement.
12. “EPA,” means the United States Environmental Protection Agency.
13. “Director,” means Director of the Division of Water Quality.
14. A “grab” sample, for monitoring requirements, is defined as a single “dip and take” sample collected at a representative point in the discharge stream.
15. An “instantaneous” measurement, for monitoring requirements, is defined as a single reading, observation, or measurement.
16. “Severe Property Damage,” means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
17. “Upset,” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

**FACT SHEET AND STATEMENT OF BASIS
RED CLIFFS LODGE
NEW PERMIT: DISCHARGE
UPDES PERMIT NUMBER: UT0026166
MINOR INDUSTRIAL**

FACILITY CONTACTS

Person Name: Charles Every
Position: General Manager
Phone Number: (435) 259-0952

Facility Name: Red Cliffs Lodge
Mailing and Facility Address: Milepost 14, Highway 128
Moab, UT 84532
Telephone: (435) 259-0952

DESCRIPTION OF FACILITY

Red Cliffs Lodge provides lodging, dining, and recreation near Moab City, Utah. 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.

The facility has an onsite well where it draws its drinking water. It processes the well water with a reverse osmosis system. The discharge is for the overflow and reject water from this reverse osmosis system.

DISCHARGE

DESCRIPTION OF DISCHARGE

The final combined discharge is to the Colorado River behind the hotel on the northern portion of the property.

Outfall

Description of Discharge Point

001 Located at latitude 38°40'47" and longitude 109°26'38".
The discharge is through an 8-inch pipe to the Colorado River.

RECEIVING WATERS AND STREAM CLASSIFICATION

The final discharge flows into the Colorado River which is classified as 1C, 2A, 3B, and 4, according to *Utah Administrative Code (UAC) R317-2-13*.

- Class 1 -- Protected for use as a raw water source for domestic water systems.
- Class 2A -- Protected for frequent primary contact recreation where there is a high likelihood of ingestion of water or a high degree of bodily contact with the water. Examples include, but are not limited to, swimming, rafting, kayaking, diving, and water skiing.
- Class 3B -- Protected for warm water species of game fish and other warm 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

Since this is an industrial facility treating groundwater, total suspended solids (TSS), biochemical oxygen demand (BOD5), and *E. coli* are not expected to be present in the discharge and were not included in the permit. The limitation on pH is based on current Utah Secondary Treatment Standards, *UAC R317-1-3.2*. The oil and grease is based on best professional judgment (BPJ). Attached is a Wasteload Analysis for this discharge into the Colorado River. It has been determined that this discharge will not cause a violation of water quality standards. An Antidegradation Level II review is required since this is a new facility. The Level II Antidegradation form is provided in the permit application and was completed by the applicant. The completed application including the Level II ADR form is attached as an appendix to this document. The permittee is expected to be able to comply with these limitations.

Total dissolved solids (TDS) limitations are based on 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*. CRBSCF has established a policy for the reasonable increase of salinity for municipal discharges to any portion of the Colorado River stream system that has an impact on the lower main stem. The CRBSCF Policy entitled “NPDES Permit Program Policy for Implementation of Colorado River Salinity Standards” (Policy), with the most current version dated October 2020, provides that the facility will be required to meet the 1 ton per day or 366 tons per year loading limit for Total Dissolved Solids.

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 issuance was not conducted following DWQ’s September 10, 2015 Reasonable Potential Analysis Guidance (RP Guidance) because there is inadequate data for use in a RP. As a result, monitoring for metals will be included in this permit. The additional monitoring will help establish a record of presence or absence of each pollutant. Monitoring for metals will be required once within 6 months of permit issuance.

The permit limitations are

Parameter	Effluent Limitations *a				
	Maximum Monthly Avg	Maximum Weekly Avg	Yearly Average	Daily Minimum	Daily Maximum
Total Flow, GPD	36,000	--	--	--	--
TDS, tons/day *b, *c	--	--	--	--	1.0
pH, Standard Units	--	--	--	6.5	9.0
Oil & Grease, mg/L	--	--	--	--	10.0

SELF-MONITORING AND REPORTING REQUIREMENTS

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.

Self-Monitoring and Reporting Requirements *a			
Parameter	Frequency	Sample Type	Units
Total Flow *b, *c	Continuous	Recorder	gpd
pH	Monthly	Grab	SU
Oil & Grease *d	When Sheen Observed	Grab	mg/L
TDS, mg/L *e	Monthly	Grab	mg/L
Selenium*f	Monthly	Grab	mg/L
Metals *g	Quarterly	Grab	mg/L

- *a See Definitions, *Part VIII*, for definition of terms.
- *b Flow measurements of influent/effluent volume shall be made in such a manner that the permittee can affirmatively demonstrate that representative values are being obtained.
- *c If the rate of discharge is controlled, the rate and duration of discharge shall be reported.
- *d Oil & Grease sampled when sheen is present or visible. If no sheen is present or visible, report NA.
- *e The effluent shall not exceed 1 ton/day salt loading, or 366 tons/year.
- *f Selenium monitoring will be required for the first year of the permit to evaluate the reasonable potential to exceed requirements for the Colorado River TMDL for dissolved Selenium. If the facility demonstrates reasonable potential to exceed selenium requirements the permit may be reopened and modified at that time to add a numeric effluent limit.
- *g The following metals should be monitored for Reasonable Potential for the first permit cycle. After at least 10 samples have been collected, the facility can request RP be run to evaluate the facilities reasonable potential to discharge these pollutants.

Metals to be Monitored for RP		
Parameter	Sample Type	Units
Total Arsenic	Grab	mg/L
Total Cadmium	Grab	mg/L
Total Chromium	Grab	mg/L
Total Copper	Grab	mg/L
Total Cyanide	Grab	mg/L
Total Lead	Grab	mg/L
Total Mercury	Grab	mg/L
Total Nickel	Grab	mg/L
Total Silver	Grab	mg/L
Total Zinc	Grab	mg/L

BIOSOLIDS

The facility is a minor industrial facility that treats groundwater from a well for culinary use. It does not produce biosolids. For this reason, there are not requirements or conditions related to biosolids in the permit.

STORM WATER

Separate storm water permits may be required based on the types of activities occurring on site.

Permit coverage under the Multi Sector General Permit (MSGP) for Storm Water Discharges from Industrial Activities is required based on the Standard Industrial Classification (SIC) code for the facility and the types of industrial activities occurring. The facility has a SIC code of 7011 - Hotels and Motels. This SIC code is not required to obtain coverage under the MSGP for Storm Water Discharges. The permit does however include a storm water re-opener provision.

Permit coverage under the Construction General Storm Water Permit (CGP) is required for any construction at the facility which disturb an acre or more, or is part of a common plan of development or sale that is an acre or greater. A Notice of Intent (NOI) is required to obtain a construction storm water permit prior to the period of construction.

Information on storm water permit requirements can be found at <http://stormwater.utah.gov>

TMDL REQUIREMENTS

According to the Utah's 2016 303(d) Water Quality Assessment Report dated December 7, 2016, the receiving water for the discharge, Colorado River from Moab to HUC unit (14030005) boundary (UT14030005-004_00) was listed for dissolved selenium with an approved TMDL. The adjacent assessment unit, Castle Creek and tributaries from confluence with Colorado River to Seventh-Day Adventist diversion (UT14030005-009_00) transects the alluvial/colluvial depositional area that Red Cliffs Lodge is sited. This assessment unit is "Not Supporting" for "OE Bioassessment". Red Cliffs Lodge initially requested the ability to discharge directly into Castle Creek assessment unit (UT14030005-009_00); however, Castle Creek is impaired for Total Dissolved Solids and the projected maximum effluent concentration of 8000 mg/L is significantly higher than the site-specific standard of 1800 mg/l. Based on these TDS considerations, the facility is discharging to the Colorado River.

Selenium monitoring will be required for the first year of the permit to evaluate the reasonable potential to exceed requirements for the Colorado River TMDL for dissolved Selenium. If the facility demonstrates reasonable potential to exceed selenium requirements the permit may be reopened and modified at that time to add a numeric effluent limit. If there is no reasonable potential to exceed selenium requirements, the requirement will be removed.

PRETREATMENT REQUIREMENTS

There will be no discharge of any process water or by-product to the sanitary sewer. Any wastewater conveyed to a public sanitary sewer is subject to federal, state and local pretreatment regulations. Pursuant to section 307 of the Clean Water Act, Red Cliffs Lodge shall comply with all applicable federal pretreatment regulations promulgated in 40 CFR section 403, the State pretreatment requirements found in *UAC R317-8-8* and any specific local regulations developed by the wastewater treatment plant.

BIOMONITORING REQUIREMENTS

A nationwide effort to control toxic discharges where effluent toxicity is an existing or potential concern is regulated in accordance with the Utah Pollutant Discharge Elimination System Permit and Enforcement Guidance Document for Whole Effluent Toxicity Control (biomonitoring), dated February 2018. 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 a minor industrial facility that will be discharging an infrequent amount of effluent, in which toxicity is neither an existing concern, nor likely to be present. Based on these considerations, and the absence of receiving stream water quality monitoring data, there is no reasonable potential for toxicity in the permittee's 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/Reviewed by
Lonnie Shull, Discharge Biomonitoring
Daniel Griffin, Biosolids
Jennifer Robinson, Pretreatment
Jeff Studenka, Colorado River Salinity
Lisa Stevens/Carl Adams, Storm Water
Chris Shope, Wasteload Analysis
Lucy Parham, Watershed Coordinator
Mike Allred, TMDL
Utah Division of Water Quality, (801) 536-4300

PUBLIC NOTICE

Began: March 31, 2021
Ended: April 30, 2021

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 Utah Division of Water Quality's website from March 31, 2021 through April 30, 2021. No Comments were received during the public comment period.

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.

RESPONSIVENESS SUMMARY

The Public Noticed of the draft permit was published in the Utah Division of Water Quality's website from March 31, 2021 through April 30, 2021. No Comments were received during the public comment period.

DWQ-2021-002044

PND Draft

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ATTACHMENT 1

Wasteload Analysis

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**Utah Division of Water Quality
Statement of Basis
ADDENDUM
Wasteload Analysis and Antidegradation Level I Review**

Date: January 7, 2021

Prepared by: Christopher L. Shope
Standards and Technical Services

Facility: Red Cliffs Lodge
Highway 128, Moab UT
UPDES Permit No. UT-7UT0026166

Receiving water: Colorado River (1C, 2A, 3B, 4)

This addendum summarizes the wasteload analysis that was performed to determine water quality based effluent limits (WQBEL) for this discharge. Wasteload analyses are performed to determine point source effluent limitations necessary to maintain designated beneficial uses by evaluating projected effects of discharge concentrations on in-stream water quality. The wasteload analysis also takes into account downstream designated uses (UAC R317-2-8). Projected concentrations are compared to numeric water quality standards to determine acceptability. The numeric criteria in this wasteload analysis may be modified by narrative criteria and other conditions determined by staff of the Division of Water Quality (DWQ).

Discharge

Outfall 001.

Receiving Water

The receiving water for Outfall 001 is Colorado River

Per UAC R317-2-13.1(a), the designated beneficial uses of both assessment units in the immediate area (Colorado River and tributaries, from Lake Powell to state line except as listed below; Castle Creek from confluence with the Colorado River to Seventh Day Adventist Diversion) are 1C, 2A, 3B, 4.

- *Class 1C -- Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water*
- *Class 2A -- Protected for frequent primary contact recreation where there is a high likelihood of ingestion of water or a high degree of bodily contact with the water. Examples include, but are not limited to, swimming, rafting, kayaking, diving, and water skiing.*

**Utah Division of Water Quality
Wasteload Analysis
Moab Red Cliffs Lodge, UPDES Permit No. N/A**

- *Class 3B -- Protected for warm water species of game fish and other warm 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. There is a site specific TDS standard for Castle Creek from confluence with the Colorado River to Seventh Day Adventist Diversion that states “Castle Creek from confluence with the Colorado River to Seventh Day Adventist Diversion: 1,800 mg/l.*

Typically, the critical flow for the wasteload analysis is considered the lowest stream flow for seven consecutive days with a ten year return frequency (7Q10). The USGS 09180500 COLORADO RIVER NEAR CISCO, UT stream gauge approximately 15 miles upgradient was used to evaluate ambient or background flow conditions. The stream gauge has a daily average flow record from 1913 to 1917 and 1922 to present. Therefore, DWQ used the minimum of the 7Q10 over the entire period to estimate the seasonal critical flow in the receiving water (Table 1). The annual average critical low flow condition is 736.0 ft³/s.

Table 1. Seasonal Flow Data at Red Cliffs Lodge Site 1

Season	Minimum 7Q10 flow (ft ³ /s)
Summer	736.0
Fall	1265.7
Winter	1567.1
Spring	1350.0
Annual Overall	736.0

Ambient, upstream, background receiving water quality was also characterized using data from USGS 09180500 COLORADO RIVER NEAR CISCO, UT stream gauge approximately 15 miles upgradient of the site. The average seasonal value was calculated for each constituent with available data in the receiving water. Effluent discharge parameters, where available, were characterized using data supplied in the permit application at monitoring site Outfall 001. It should be noted that only discharge, TDS, nitrate, sulfate, and sulfide data were provided.

Total Maximum Daily Load (TMDL)

According to the Utah’s 2016 303(d) [Water Quality Assessment Report](#) dated December 7, 2016, the receiving water for the discharge, Colorado River from Moab to HUC unit (14030005) boundary (UT14030005-004_00) was listed for dissolved selenium with an approved TMDL. The adjacent assessment unit, Castle Creek and tributaries from confluence with Colorado River to Seventh-Day Adventist diversion (UT14030005-009_00) transects the alluvial/colluvial depositional area that Red Cliffs Lodge is sited. This assessment unit is “Not Supporting” for “OE Bioassessment”. Red Cliffs Lodge has requested the ability to discharge directly into Castle Creek assessment unit (UT14030005-009_00); however, Castle Creek is impaired for TDS and the maximum effluent concentration (8000 mg/l) is significantly higher than the site specific standard (1800 mg/l).

**Utah Division of Water Quality
Wasteload Analysis
Moab Red Cliffs Lodge, UPDES Permit No. N/A**

Mixing Zone

The maximum allowable mixing zone is 15 minutes of travel time for acute conditions, not to exceed 50% of stream width, and for chronic conditions is 2500 ft, per UAC R317-2-5. Water quality standards must be met at the end of the mixing zone.

The modeled plume width at 15 minutes of travel time or 4100 ft is 21.9% of the river and the plume width at 2500 ft downstream is 17.1% of the width of the river. Therefore, the plume is considered to be incompletely mixed. Acute limits were calculated using 50% and 100% of the seasonal critical low flow for acute and chronic conditions, respectively.

Parameters of Concern

The potential parameters of concern identified for the discharge/receiving water were TDS, aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, fluoride, iron, lead, mercury, nickel, selenium, silver, zinc, and nitrate as determined in consultation with the UPDES Permit Writer.

WET Limits

The percent of effluent in the receiving water in a fully mixed condition, and acute and chronic dilution in a not fully mixed condition are calculated in the WLA in order to generate WET limits. The LC₅₀ (lethal concentration, 50%) percent effluent for acute toxicity and the IC₂₅ (inhibition concentration, 25%) percent effluent for chronic toxicity, as determined by the WET test, needs to be below the WET limits, as determined by the WLA. The WET limit for LC₅₀ is typically 100% effluent and does not need to be determined by the WLA.

Table 2: WET Limits for IC₂₅

Outfall	Percent Effluent
Outfall 001	0.1%

Wasteload Allocation Methods

Effluent limits were determined for conservative constituents using a simple mass balance mixing analysis (UDWQ, 2012). The mass balance analysis is summarized in the Wasteload Addendum.

The water quality standard for chronic ammonia toxicity is dependent on temperature and pH, and the water quality standard for acute ammonia toxicity is dependent on pH. However, temperature, pH, and ammonia concentration of the effluent were not provided. The AMMTOX Model developed by University of Colorado and adapted by Utah DWQ and EPA Region VIII was used to determine ammonia effluent limits (Lewis et al., 2002). The analysis is summarized in the Wasteload Addendum.

Models and supporting documentation are available for review upon request.

Antidegradation Level I Review

Utah Division of Water Quality
Wasteload Analysis
Moab Red Cliffs Lodge, UPDES Permit No. N/A

The objective of the Level I ADR is to ensure the protection of existing uses, defined as the beneficial uses attained in the receiving water on or after November 28, 1975. No evidence is known that the existing uses deviate from the designated beneficial uses for the receiving water. Therefore, the beneficial uses will be protected if the discharge remains below the WQBELs presented in this wasteload.

A Level II Antidegradation Review (ADR) is required for this facility because it is a new permit.

Documents:

WLA Document: *Moab_Red_Cliffs_RO_WLA_2020.docx*

Wasteload Analysis and Addendums: *Moab_Red_Cliffs_RO_WLA_2020.xlsm*

References:

Lewis, B., J. Saunders, and M. Murphy. 2002. Ammonia Toxicity Model (AMMTOX, Version2): A Tool for Determining Effluent Ammonia Limits. University of Colorado, Center for Limnology.

Utah Division of Water Quality. 2012. *Utah Wasteload Analysis Procedures Version 1.0*.

Utah Division of Water Quality
Salt Lake City, Utah

WASTELOAD ANALYSIS [WLA] [REDACTED] = not included in the WLA
Addendum: Statement of Basis

7-Jan-21
4:00 PM

Facilities: Red Cliffs Lodge, Moab UT
Discharging to: Colorado River

UPDES No: UT-0026166

I. Introduction

Wasteload analyses are performed to determine point source effluent limitations necessary to maintain designated beneficial uses by evaluating projected effects of discharge concentrations on in-stream water quality. The wasteload analysis also takes into account downstream designated uses [R317-2-8, UAC]. Projected concentrations are compared to numeric water quality standards to determine acceptability. The anti-degradation policy and procedures are also considered. The primary in-stream parameters of concern may include metals (as a function of hardness), total dissolved solids (TDS), total residual chlorine (TRC), un-ionized ammonia (as a function of pH and temperature, measured and evaluated in terms of total ammonia), and dissolved oxygen.

Mathematical water quality modeling is employed to determine stream quality response to point source discharges. Models aid in the effort of anticipating stream quality at future effluent flows at critical environmental conditions (e.g., low stream flow, high temperature, high pH, etc).

The numeric criteria in this wasteload analysis may always be modified by narrative criteria and other conditions determined by staff of the Division of Water Quality.

II. Receiving Water and Stream Classification

Colorado River: 1C,2A,3B,4
Antidegradation Review: Level I review completed. Level II review is required.

III. Numeric Stream Standards for Protection of Aquatic Wildlife

Maximum Total Dissolved Solids 1800.0 mg/l Background

**Utah Division of Water Quality
Salt Lake City, Utah**

Acute and Chronic Heavy Metals (Dissolved)

Parameter	4 Day Average (Chronic) Standard		1 Hour Average (Acute) Standard		
	Concentration	Load*	Concentration		Load*
Aluminum	87.00 ug/l**	0.031 lbs/day	750.00	ug/l	0.270 lbs/day
Arsenic	150.00 ug/l	0.054 lbs/day	340.00	ug/l	0.123 lbs/day
Cadmium	2.57 ug/l	0.001 lbs/day	8.07	ug/l	0.003 lbs/day
Chromium III	288.85 ug/l	0.104 lbs/day	6043.20	ug/l	2.179 lbs/day
ChromiumVI	11.00 ug/l	0.004 lbs/day	16.00	ug/l	0.006 lbs/day
Copper	32.95 ug/l	0.012 lbs/day	56.28	ug/l	0.020 lbs/day
Iron			1000.00	ug/l	0.361 lbs/day
Lead	20.85 ug/l	0.008 lbs/day	535.01	ug/l	0.193 lbs/day
Mercury	0.0120 ug/l	0.000 lbs/day	2.40	ug/l	0.001 lbs/day
Nickel	181.94 ug/l	0.066 lbs/day	1636.48	ug/l	0.590 lbs/day
Selenium	4.60 ug/l	0.002 lbs/day	20.00	ug/l	0.007 lbs/day
Silver	N/A ug/l	N/A lbs/day	47.99	ug/l	0.017 lbs/day
Zinc	418.72 ug/l	0.151 lbs/day	418.72	ug/l	0.151 lbs/day

* Allowed below discharge

**Chronic Aluminum standard applies only to waters with a pH < 7.0 and a Hardness < 50 mg/l as CaCO3

Metals Standards Based upon a Hardness of 437.87 mg/l as CaCO3

**Utah Division of Water Quality
Salt Lake City, Utah**

IV. Numeric Stream Standards for Protection of Agriculture

	4 Day Average (Chronic) Standard		1 Hour Average (Acute) Standard	
	Concentration	Load*	Concentration	Load*
Arsenic			100.0 ug/l	lbs/day
Boron			750.0 ug/l	0.14 lbs/day
Cadmium			10.0 ug/l	0.00 lbs/day
Chromium			100.0 ug/l	lbs/day
Copper			200.0 ug/l	lbs/day
Lead			100.0 ug/l	lbs/day
Selenium			50.0 ug/l	lbs/day
TDS, Summer			1800.0 mg/l	0.32 tons/day

V. Numeric Stream Standards for Protection of Human Health (Class 1C Waters)

Metals	4 Day Average (Chronic) Standard		1 Hour Average (Acute) Standard	
	Concentration	Load*	Concentration	Load*
Arsenic			50.0 ug/l	10.255 lbs/day
Barium			1000.0 ug/l	205.110 lbs/day
Cadmium			10.0 ug/l	2.051 lbs/day
Chromium			50.0 ug/l	10.255 lbs/day
Lead			50.0 ug/l	10.255 lbs/day
Mercury			2.0 ug/l	0.410 lbs/day
Selenium			10.0 ug/l	2.051 lbs/day
Silver			50.0 ug/l	10.255 lbs/day
Fluoride (3) to			1.4 ug/l	0.287 lbs/day
Nitrates as N			2.4 ug/l	0.492 lbs/day
			10.0 ug/l	2.051 lbs/day

VI. Numeric Stream Standards the Protection of Human Health from Water & Fish Consumption [Toxics]

Metals	Maximum Conc., ug/l - Acute Standards			
	Class 1C		Class 3A, 3B	
Antimony	14.0 ug/l	2.87 lbs/day		
Arsenic	50.0 ug/l	10.26 lbs/day	4300.00 ug/l	881.97 lbs/day
Asbestos	7.00E+06 ug/l	1.44E+06 lbs/day		
Beryllium				
Cadmium				
Chromium (III)				
Chromium (VI)				
Copper				
Cyanide	1.30E+03 ug/l	266.64 lbs/day	2.2E+05 ug/l	45124.18 lbs/day
Lead	700.0 ug/l	143.58 lbs/day		
Mercury			0.15 ug/l	0.03 lbs/day
Nickel			4600.00 ug/l	943.51 lbs/day
Selenium	0.1 ug/l	0.03 lbs/day		
Silver	610.0 ug/l	125.12 lbs/day		
Thallium			6.30 ug/l	1.29 lbs/day
Zinc				

There are additional standards that apply to this receiving water, but were not considered in this modeling/waste load allocation analysis.

VII. Mathematical Modeling of Stream Quality

Model configuration was accomplished utilizing standard modeling procedures. Data points were plotted and coefficients adjusted as required to match observed data as closely as possible.

The modeling approach used in this analysis included one or a combination of the following

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Salt Lake City, Utah**

models.

(1) The Utah River Model, Utah Division of Water Quality, 1992. Based upon STREAMDO IV (Region VIII) and Supplemental Ammonia Toxicity Models; EPA Region VIII, Sept. 1990 and QUAL2E (EPA, Athens, GA).

(2) Utah Ammonia/Chlorine Model, Utah Division of Water Quality, 1992.

(3) AMMTOX Model, University of Colorado, Center of Limnology, and EPA Region 8

(4) Principles of Surface Water Quality Modeling and Control. Robert V. Thomann, et.al. Harper Collins Publisher, Inc. 1987, pp. 644.

Coefficients used in the model were based, in part, upon the following references:

(1) Rates, Constants, and Kinetics Formulations in Surface Water Quality Modeling. Environmental Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Athens Georgia. EPA/600/3-85/040 June 1985.

(2) Principles of Surface Water Quality Modeling and Control. Robert V. Thomann, et.al. Harper Collins Publisher, Inc. 1987, pp. 644.

VIII. Modeling Information

The required information for the model may include the following information for both the upstream conditions at low flow and the effluent conditions:

Flow, Q, (cfs or MGD)	D.O. mg/l
Temperature, Deg. C.	Total Residual Chlorine (TRC), mg/l
pH	Total NH3-N, mg/l
BOD5, mg/l	Total Dissolved Solids (TDS), mg/l
Metals, ug/l	Toxic Organics of Concern, ug/l

Other Conditions

In addition to the upstream and effluent conditions, the models require a variety of physical and biological coefficients and other technical information. In the process of actually establishing the permit limits for an effluent, values are used based upon the available data, model calibration, literature values, site visits and best professional judgement.

Model Inputs

The following is upstream and discharge information that was utilized as inputs for the analysis. Dry washes are considered to have an upstream flow equal to the flow of the discharge.

Current Upstream Information

	Stream		Temp. Deg. C	pH	T-NH3 mg/l as N	BOD5 mg/l	DO mg/l	TRC mg/l	TDS mg/l
	Critical	Low							
	Flow								
	cfs								
Summer (Irrig. Season)	736.0		31.3	7.9	0.06	1.00	5.66	0.00	3591.8
Fall	1265.7		7.3	8.0	0.13	1.00	---	0.00	3423.9
Winter	1567.1		5.2	7.9	0.24	1.00	---	0.00	3423.9
Spring	1350.0		31.4	7.8	0.07	1.00	---	0.00	3423.9
Dissolved Metals	Al	As	Cd	CrIII	CrVI	Copper	Fe	Pb	
	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
All Seasons	9.25	1.04	0.75	1.70	2.65*	4.78	0.0	25.63	

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Dissolved
Metals
All Seasons

Hg
ug/l
0.0000

Ni
ug/l
16.08

Se
ug/l
4.60

Ag
ug/l
0.46

Zn
ug/l
23.28

Boron
ug/l
10.0

* 1/2 MDL

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Projected Discharge Information

Season	Flow, MGD	Temp.	TDS mg/l	TDS tons/day
Summer	0.03600	NA	7230.00	1.08515
Fall	0.03600	NA		
Winter	0.03600	NA		
Spring	0.03600	NA		

All model numerical inputs, intermediate calculations, outputs and graphs are available for discussion, inspection and copy at the Division of Water Quality.

IX. Effluent Limitations

Current State water quality standards are required to be met under a variety of conditions including in-stream flows targeted to the 7-day, 10-year low flow (R317-2-9).

Other conditions used in the modeling effort coincide with the environmental conditions expected at low stream flows.

Effluent Limitation for Flow based upon Water Quality Standards

In-stream criteria of downstream segments will be met with an effluent flow maximum value as follows:

Season	Daily Average	
Summer	0.036 MGD	0.056 cfs
Fall	0.036 MGD	0.056 cfs
Winter	0.036 MGD	0.056 cfs
Spring	0.036 MGD	0.056 cfs

Flow Requirement or Loading Requirement

The calculations in this wasteload analysis utilize the maximum effluent discharge flow of 0.036 MGD. If the discharger is allowed to have a flow greater than 0.036 MGD during 7Q10 conditions, and effluent limit concentrations as indicated, then water quality standards will be violated. In order to prevent this from occurring, the permit writers must include the discharge flow limitation as indicated above; or, include loading effluent limits in the permit.

Effluent Limitation for Whole Effluent Toxicity (WET) based upon WET Policy

Effluent Toxicity will not occur in downstream segments if the values below are met.

WET Requirements	LC50 >	0.1% Effluent	[Acute]
	IC25 >	0.0% Effluent	[Chronic]

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Effluent Limitations for Total Dissolved Solids based upon Water Quality Standards

Season		Concentration		Load	
Summer	Maximum, Acute	3591.8	mg/l	0.54	tons/day
Fall	Maximum, Acute	3591.8	mg/l	0.54	tons/day
Winter	Maximum, Acute	3591.8	mg/l	0.54	tons/day
Spring	4 Day Avg. - Chronic	3591.8	mg/l	0.54	tons/day
Colorado Salinity Forum Limits		Determined by Permitting Section			

Effluent Limitations for Total Recoverable Metals based upon Water Quality Standards

In-stream criteria of downstream segments for Dissolved Metals will be met with an effluent limitation as follows (based upon a hardness of 437.87 mg/l):

	4 Day Average		1 Hour Average		
	Concentration	Load	Concentration		Load
Aluminum	N/A	N/A	4,895,456.6	ug/l	1765.1 lbs/day
Arsenic	99,254.57 ug/l	19.3 lbs/day	2,240,110.2	ug/l	807.7 lbs/day
Cadmium	1,213.78 ug/l	0.2 lbs/day	48,373.5	ug/l	17.4 lbs/day
Chromium III	191,331.49 ug/l	37.1 lbs/day	39,926,926.7	ug/l	14395.8 lbs/day
Chromium VI	4,684.80 ug/l	0.9 lbs/day	79,474.5	ug/l	28.7 lbs/day
Copper	18,775.61 ug/l	3.6 lbs/day	340,380.3	ug/l	122.7 lbs/day
Iron	N/A	N/A	6,608,692.0	ug/l	2382.8 lbs/day
Lead	(3,160.27) ug/l	-0.6 lbs/day	3,366,396.7	ug/l	1213.8 lbs/day
Mercury	7.99 ug/l	0.0 lbs/day	15,861.0	ug/l	5.7 lbs/day
Nickel	110,533.48 ug/l	21.4 lbs/day	10,708,860.7	ug/l	3861.1 lbs/day
Selenium	7.26 ug/l	0.0 lbs/day	101,806.1	ug/l	36.7 lbs/day
Silver	N/A ug/l	N/A lbs/day	314,107.5	ug/l	113.3 lbs/day
Zinc	263,510.87 ug/l	51.1 lbs/day	2,613,415.4	ug/l	942.3 lbs/day
Cyanide	3,464.81 ug/l	0.7 lbs/day	145,393.0	ug/l	52.4 lbs/day

Effluent Limitations for Heat/Temperature based upon Water Quality Standards

Summer	100.0 Deg. C.	212.0 Deg. F
Fall	100.0 Deg. C.	212.0 Deg. F
Winter	100.0 Deg. C.	212.0 Deg. F
Spring	100.0 Deg. C.	212.0 Deg. F

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**Effluent Targets for Pollution Indicators
Based upon Water Quality Standards**

In-stream criteria of downstream segments for Pollution Indicators will be met with an effluent limit as follows:

	Concentration	1 Hour Average Loading
Nitrates as N	4.0 mg/l	1.4 lbs/day

Note: Pollution indicator targets are for information purposes only.

**Effluent Limitations for Protection of Human Health [Toxics Rule]
Based upon Water Quality Standards (Most stringent of 1C or 3A & 3B as appropriate.)**

In-stream criteria of downstream segments for Protection of Human Health [Toxics] will be met with an effluent limit as follows:

	Concentration	Maximum Concentration Load
Metals		
Antimony	185031.60 ug/l	55.54 lbs/day
Arsenic	647082.97 ug/l	194.24 lbs/day
Asbestos	9.25E+10 ug/l	2.78E+07 lbs/day
Beryllium		
Cadmium		
Chromium (III)		
Chromium (VI)		
Copper	17181505.42 ug/l	5157.54 lbs/day
Cyanide	9251579.84 ug/l	2777.14 lbs/day
Lead	0.00	0.00
Mercury	1850.24 ug/l	0.56 lbs/day
Nickel	8062091.00 ug/l	2420.08 lbs/day
Selenium	0.00	0.00
Silver	0.00	0.00
Thallium	22468.12 ug/l	6.74 lbs/day
Zinc		

**Metals Effluent Limitations for Protection of All Beneficial Uses
Based upon Water Quality Standards and Toxics Rule**

	Class 4 Acute Agricultural ug/l	Class 3 Acute Aquatic Wildlife ug/l	Acute Toxics Drinking Water Source ug/l	Acute Toxics Wildlife ug/l	1C Acute Health Criteria ug/l	Acute Most Stringent ug/l	Class 3 Chronic Aquatic Wildlife ug/l
Aluminum		4895456.6				4895456.6	N/A
Antimony			185031.6	56831133.3		185031.6	
Arsenic	1321654.3	2240110.2	647083.0		0.0	647083.0	99254.6
Asbestos			9.25E+10			9.25E+10	
Barium					13216542.6	13216542.6	
Beryllium						0.0	
Cadmium	122306.6	48373.5			0.0	48373.5	1213.8
Chromium (III)		39926926.7			0.0	39926926.7	191331.5
Chromium (VI)	1299227.5	79474.5			0.0	79474.45	4684.80
Copper	2580151.4	340380.3	17181505.4			340380.3	18775.6
Cyanide		145393.0	2907639378.0			145393.0	3464.8
Iron		6608692.0				6608692.0	

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Lead	982939.9	3366396.7			0.0	982939.9	-3160.3
Mercury		15861.01	1850.2	1982.48	0.0	1850.24	7.992
Nickel		10708860.7	8062091.0	60796096.1		8062091.0	110533.5
Selenium	600088.5	101806.1			0.0	101806.1	7.3
Silver		314107.5			0.0	314107.5	
Thallium			22468.1	83264.2		22468.1	
Zinc		2613415.4				2613415.4	263510.9
Boron	9910979.7					9910979.7	

Summary Effluent Limitations for Metals [Wasteload Allocation, TMDL]

[If Acute is more stringent than Chronic, then the Chronic takes on the Acute value.]

	WLA Acute ug/l	WLA Chronic ug/l
Aluminum	4895456.6	N/A
Antimony	185031.60	
Arsenic	647083.0	99254.6
Asbestos	9.25E+10	
Barium		
Beryllium		
Cadmium	48373.5	1213.8
Chromium (III)	39926926.7	191331
Chromium (VI)	79474.5	4684.8
Copper	340380.3	18775.6
Cyanide	145393.0	3464.8
Iron	6608692.0	
Lead	982939.9	-3160.3
Mercury	1850.237	7.992
Nickel	8062091.0	110533
Selenium	101806.1	7.3
Silver	314107.5	N/A
Thallium	22468.1	
Zinc	2613415.4	263510.9
Boron	9910979.69	

X. Antidegradation Considerations

The Utah Antidegradation Policy allows for degradation of existing quality where it is determined that such lowering of water quality is necessary to accommodate important economic or social development in the area in which the waters are protected [R317-2-3]. It has been determined that certain chemical parameters introduced by this discharge will cause an increase of the concentration of said parameters in the receiving waters. Under no conditions will the increase in concentration be allowed to interfere with existing instream water uses.

The antidegradation rules and procedures allow for modification of effluent limits less than those based strictly upon mass balance equations utilizing 100% of the assimilative capacity of the receiving water. Additional factors include considerations for "Blue-ribbon" fisheries, special recreational areas, threatened and endangered species, and drinking water sources.

An Antidegradation Level I Review was conducted on this discharge and its effect on the receiving water. Based upon that review, it has been determined that an Antidegradation Level II Review is not required.

XI. Colorado River Salinity Forum Considerations

Discharges in the Colorado River Basin are required to have their discharge at a TDS loading of less than 1.00 tons/day unless certain exemptions apply. Refer to the Forum's Guidelines

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for additional information allowing for an exceedence of this value.
This doesn't apply to facilities that do not discharge to the Colorado River Basin.

XII. Summary Comments

The mathematical modeling and best professional judgement indicate that violations of receiving water beneficial uses with their associated water quality standards, including important downstream segments, will not occur for the evaluated parameters of concern as discussed above if the effluent limitations indicated above are met.

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XIII. Notice of UPDES Requirement

This Addendum to the Statement of Basis does not authorize any entity or party to discharge to the waters of the State of Utah. That authority is granted through a UPDES permit issued by the Utah Division of Water Quality. The numbers presented here may be changed as a function of other factors. Dischargers are strongly urged to contact the Permits Section for further information. Permit writers may utilize other information to adjust these limits and/or to determine other limits based upon best available technology and other considerations provided that the values in this wasteload analysis [TMDL] are not compromised. See special provisions in Utah Water Quality Standards for adjustments in the Total Dissolved Solids values based upon background concentration.

Utah Division of Water Quality
801-538-6052
File Name: Moab_Red_Cliffs_RO_WLA_2020.xlsm

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APPENDIX - Coefficients and Other Model Information

CBOD Coeff. (Kd)20 1/day 2.000	CBOD Coeff. FORCED (Kd)/day 0.000	CBOD Coeff. (Ka)T 1/day 3.367	REAER. Coeff. (Ka)20 (Ka)/day 371.565	REAER. Coeff. FORCED 1/day 0.000	REAER. Coeff. (Ka)T 1/day 486.249	NBOD Coeff. (Kn)20 1/day 0.400	NBOD Coeff. (Kn)T 1/day 0.958
Open Coeff. (K4)20 1/day 0.000	Open Coeff. (K4)T 1/day 0.000	NH3 LOSS (K5)20 1/day 4.000	NH3 (K5)T 1/day 6.734	NO2+NO3 LOSS (K6)20 1/day 0.000	NO2+NO3 (K6)T 1/day 0.000	TRC Decay K(CI)20 1/day 32.000	TRC K(CI)(T) 1/day 61.969
BENTHIC DEMAND (SOD)20 gm/m2/day 1.000	BENTHIC DEMAND (SOD)T gm/m2/day 2.043						
K1 CBOD {theta} 1.0	K2 Reaer. {theta} 1.0	K3 NH3 {theta} 1.1	K4 Open {theta} 1.0	K5 NH3 Loss {theta} 1.0	K6 NO2+3 {theta} 1.0	K(CI) TRC {theta} 1.1	S Benthic {theta} 1.1

Antidegradation Review

An antidegradation review (ADR) was conducted to determine whether the proposed activity complies with the applicable antidegradation requirements for receiving waters that may be affected. The Level I ADR evaluated the criteria of R317-2-3.5(b) and determined that a Level II antidegradation Review is required.

DWQ-2021-002042

ATTACHMENT 2

Permit Application



**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: _____

Facility Location: _____

City _____ State _____ Zip _____

Facility Mailing Address: _____

City _____ State _____ Zip _____

Facility Contact: _____ **Title:** _____

Phone Number: _____ **Email Address:** _____

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



Division of Water Quality (DWQ) UPDES Program

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	
	mgd

Annual Average Flow Rates (Actual)					
Five Years Ago		Four Years Ago		Three Years Ago	
	mgd		mgd		mgd
Two Years Ago		Last Year		Current Year	
	mgd		mgd		mgd

Maximum Daily Flow Rates (Actual)					
Five Years Ago		Four Years Ago		Three Years Ago	
	mgd		mgd		mgd
Two Years Ago		Last Year		Current Year	
	mgd		mgd		mgd

Describe the treatment for each outfall*

	Outfall Number		Outfall Number		Outfall Number	
Level of Treatment						
Primary	Treatment Unit		Treatment Unit		Treatment Unit	
	Size		Size		Size	
	Flow rate		Flow rate		Flow rate	
	Retention time		Retention time		Retention time	
	Other		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



Division of Water Quality (DWQ) UPDES Program

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.						

Division of Water Quality (DWQ) UPDES Program

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. _____		Outfall No. _____		Outfall No. _____		Outfall No. _____	
	Acute		Chronic		Acute		Chronic		Acute		Chronic	
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	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL
	Qtr 1	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 1	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 1	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 1	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 1	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 1	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL
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	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL	Qtr 4	<input type="checkbox"/> PASS <input type="checkbox"/> FAIL

Describe any cause(s) of toxicity:

Were the above WET analysis submitted to Utah DWQ? YES NO



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)
	mgd	O ' "	O ' "	
	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			



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		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)
	<input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide
	<input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide
	<input type="checkbox"/> Volatile <input type="checkbox"/> Acid <input type="checkbox"/> Base/Neutral <input type="checkbox"/> 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			
Laboratory address			
Phone Number			
Pollutant(s) analyzed			



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?

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	
Amount treated at the facility	
Amount used (i.e., received from offsite) at the facility	
Amount disposed of at the facility	

Treatment Provided at Your Facility

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

- | | |
|--|---|
| <input type="checkbox"/> Preliminary operations (e.g., sludge grinding and degritting) | <input type="checkbox"/> Thickening (concentration) |
| <input type="checkbox"/> Stabilization | <input type="checkbox"/> Anaerobic digestion |
| <input type="checkbox"/> Composting | <input type="checkbox"/> Conditioning |
| <input type="checkbox"/> Disinfection | <input type="checkbox"/> Dewatering (e.g. centrifugation, sludge drying beds, sludge lagoons) |
| <input type="checkbox"/> Heat drying | <input type="checkbox"/> Thermal reduction |
| <input type="checkbox"/> Methane or biogas capture and recovery | |

Sewage Sludge Disposal Method

Land Application of Bulk Sewage Sludge

Is sewage sludge from 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 _____



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	<input type="checkbox"/> Seasonal <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
	acres	gpd	<input type="checkbox"/> Seasonal <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent
	acres	gpd	<input type="checkbox"/> Seasonal <input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent

Seasonal land application.

Indicate months of seasonal land application

- | | | | |
|-----------------------------------|--------------------------------|------------------------------------|-----------------------------------|
| <input type="checkbox"/> January | <input type="checkbox"/> April | <input type="checkbox"/> July | <input type="checkbox"/> October |
| <input type="checkbox"/> February | <input type="checkbox"/> May | <input type="checkbox"/> August | <input type="checkbox"/> November |
| <input type="checkbox"/> March | <input type="checkbox"/> June | <input type="checkbox"/> September | <input type="checkbox"/> 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.



Division of Water Quality (DWQ) UPDES Program

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):



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.*

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 or 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 changes 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 or 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 no need to proceed further with the review questions.
Continue to the Certification Statement and Signature page.

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 no need to proceed further with the review questions.
Continue to the Certification Statement and Signature page.



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 from 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.

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

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

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



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.

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.			
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 antidegradation 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: _____

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.

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	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Water Recycling/Reuse	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Land Application	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Connection to Other Facilities	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Upgrade to Existing Facility	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Total Containment	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Improved O&M of Existing Systems	<input type="checkbox"/> YES <input type="checkbox"/> NO	
Seasonal or Controlled Discharge	<input type="checkbox"/> YES <input type="checkbox"/> NO	
New Construction	<input type="checkbox"/> YES <input type="checkbox"/> NO	
No Discharge	<input type="checkbox"/> YES <input type="checkbox"/> NO	

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



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: _____



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 qualified 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 Every
 PRINT Signatory

[Signature]
 Signature

G.M.
 Title

11/24/20
 Date

Authority

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 retain 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



UPDES Industrial Permit Application

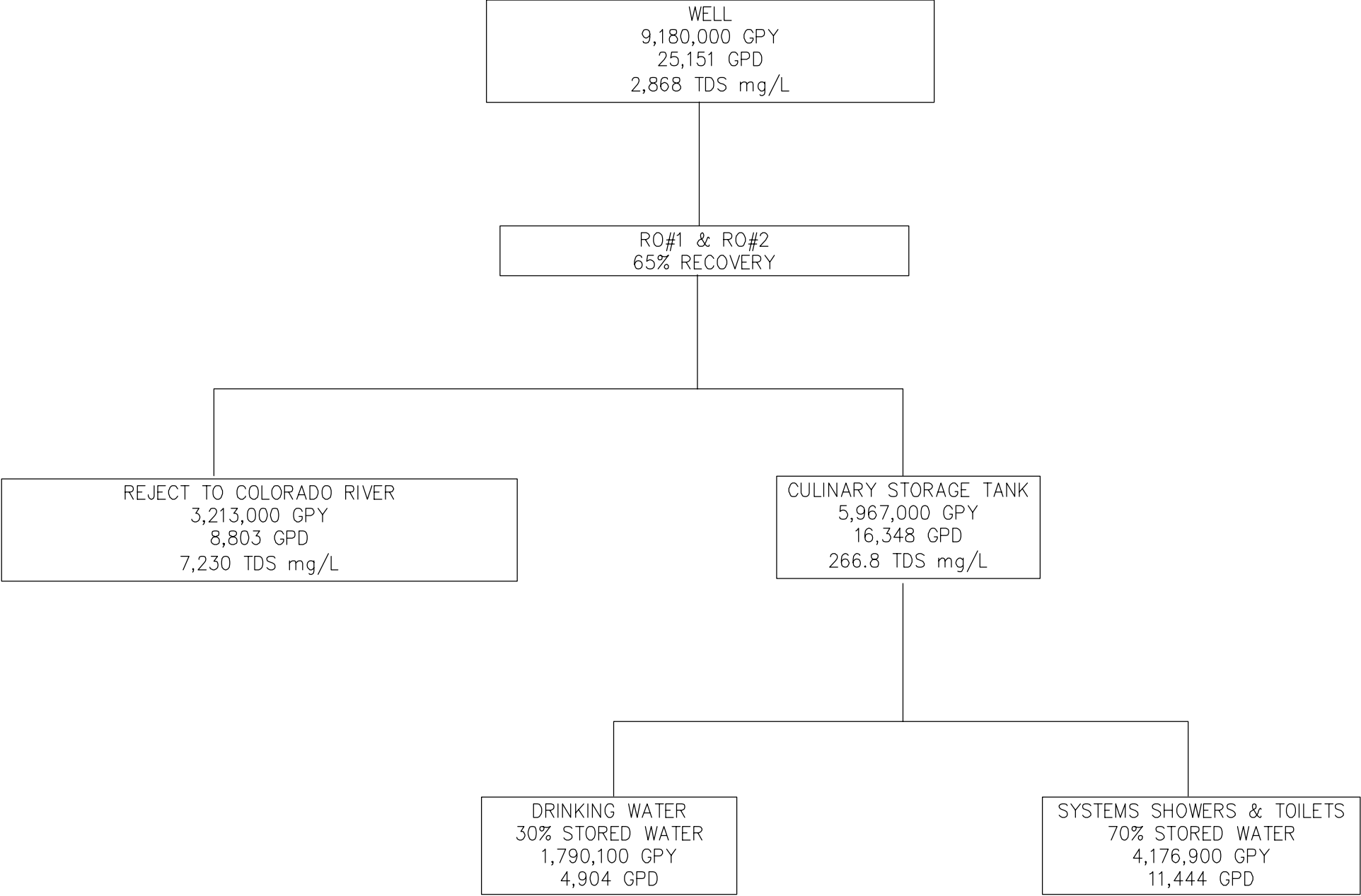
**Appendix A. Testing Requirements for Organic Toxic Pollutants
Industry Categories***

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

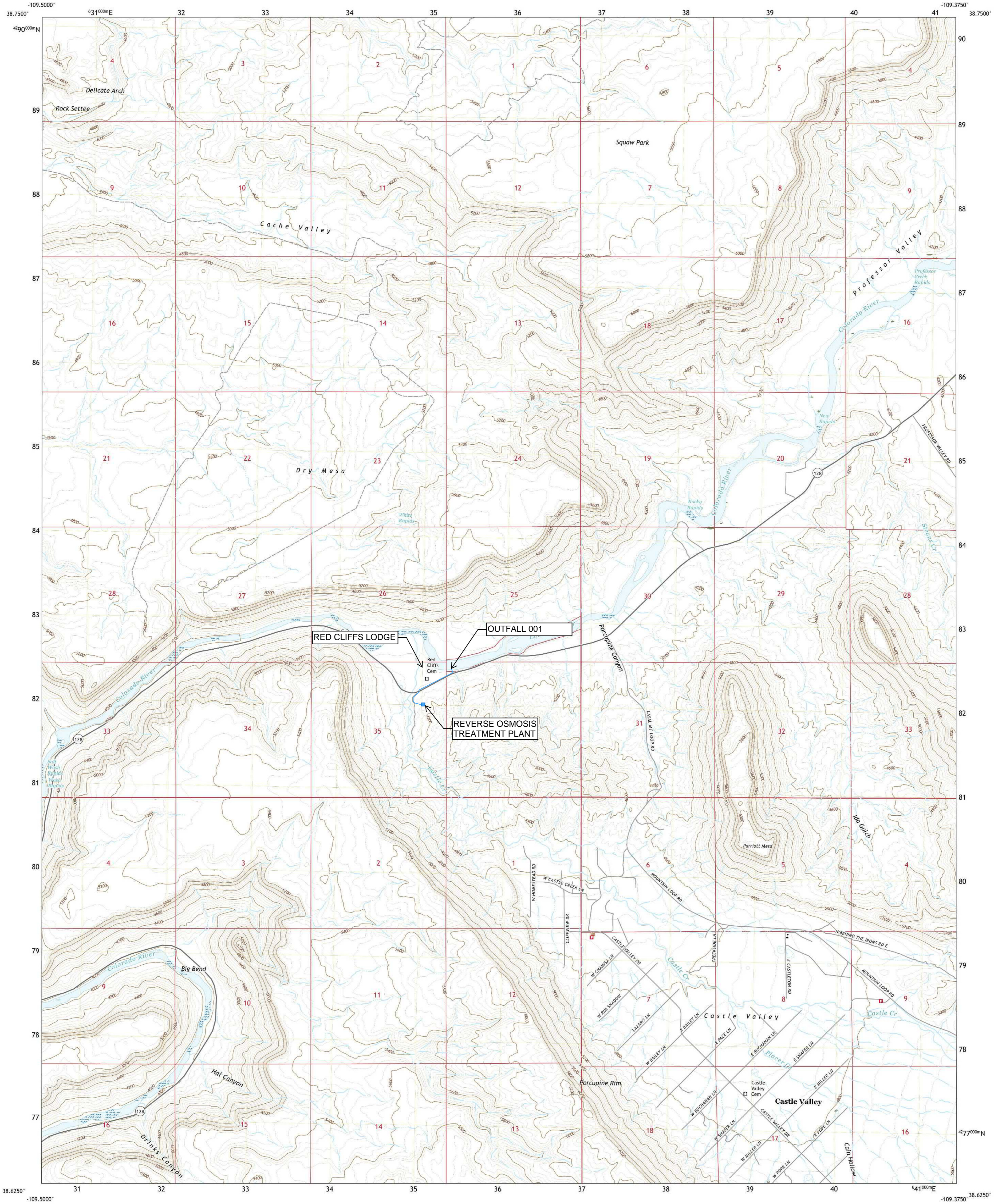


TOTAL SYSTEM USE: 5,967,000 GPY

TOTAL REJECTED: 3,213,000 GPY

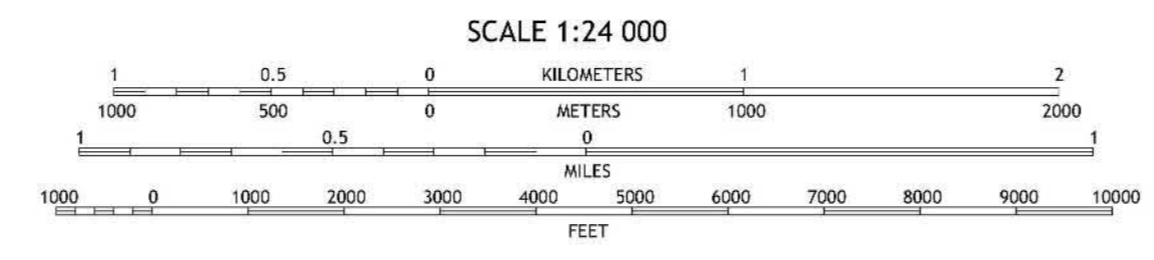
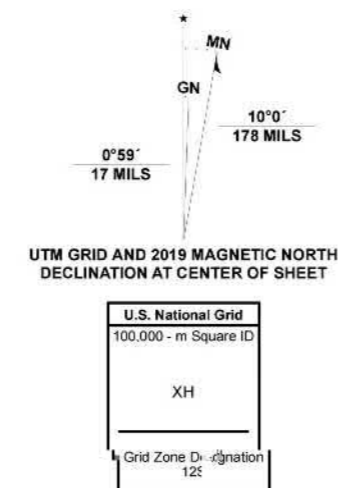


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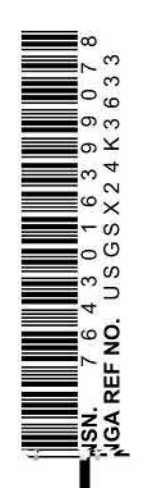
Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1,000-meter grid/Universal Transverse Mercator, Zone 12S
This map is not a legal document. Boundaries may be
generalized for this map scale. Private lands within 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.....GNS, 1979 - 2019
Hydrography.....National Hydrography Dataset, 1989 - 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



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 Mill Creek
8 Warner Lake





Division of Water Quality (DWQ) UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name		Outfall Number	
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Table A. Conventional and Non-Conventional Pollutants¹										
	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
<input type="checkbox"/>	Check here if you have applied to Utah DWQ for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD ₅)	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
			Mass	<input type="checkbox"/>						
2.	Chemical oxygen demand (COD)	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
			Mass	<input type="checkbox"/>						
3.	Total organic carbon (TOC)	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
			Mass	<input type="checkbox"/>						
4.	Total suspended solids (TSS)	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
			Mass	<input type="checkbox"/>						
5.	Ammonia (as N)	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
			Mass	<input type="checkbox"/>						
6.	Flow	<input type="checkbox"/>	Rate	<input type="checkbox"/>						
7.	Temperature (winter)	<input type="checkbox"/>	Fahrenheit	<input type="checkbox"/>						
	Temperature (summer)	<input type="checkbox"/>	Fahrenheit	<input type="checkbox"/>						
8.	pH (minimum)	<input type="checkbox"/>	Standard units	SU						
	pH (maximum)	<input type="checkbox"/>	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.

Division of Water Quality (DWQ) UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name		Outfall Number	
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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
2.	Arsenic, Total (7440-38-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
3.	Beryllium, Total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
4.	Cadmium, Total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
5.	Chromium, Total (7440-47-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
6.	Copper, Total (7440-50-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
7.	Lead, Total (7439-92-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						

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.

Division of Water Quality (DWQ) UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name		Outfall Number	
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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 <i>continued</i>												
8.	Mercury, Total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
9.	Nickel, Total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
10.	Selenium, Total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
11.	Silver, Total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
12.	Thallium, Total (7440-28-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
13.	Zinc, Total (7440-66-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
14.	Cyanide, Total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
15.	Phenols, Total	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						

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		Outfall Number	
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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
2.	Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
3.	Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
4.	Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
5.	Carbon tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
6.	Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
7.	Chlorodibrompmethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
8.	Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						

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UPDES Permit No.		Facility Name		Outfall Number	
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Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants¹

	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) <i>continued</i>												
9.	2-chloroethylvinyl ether (110-75-80)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
10.	Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
11.	Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
12.	1,1-dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
13.	1,2-dichloroethane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
14.	1,1-dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
15.	1,2-dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
16.	1,3-dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						

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UPDES Industrial Permit Application

UPDES Permit No.		Facility Name		Outfall Number	
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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) <i>continued</i>												
17.	Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
18.	Methyl bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
19.	Methyl chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
20.	Methylene chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
21.	1,1,2,2-tetrachloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
22.	Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
23.	Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
24.	1,2-trans-dichloroethylene (156-60-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						

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UPDES Permit No.		Facility Name		Outfall Number	
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Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants¹

	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) <i>continued</i>												
25.	1,1,1-trichloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
26.	1,1,2-trichloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
27.	Trichloroethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						
28.	Vinyl chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
					Mass	<input type="checkbox"/>						

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		Outfall Number	
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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
2.	2,4-dichlorophenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
3.	2,4-dimethylphenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
4.	4,6-dinitro-o-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
5.	2,4-dinitrophenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
6.	2-nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
7.	4-nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
8.	p-chloro-m-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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.

Division of Water Quality (DWQ) UPDES Program

UPDES Industrial Permit Application

UPDES Permit No.		Facility Name		Outfall Number	
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Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants¹

	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
10.	Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
11.	2,4,6-trichlorophenol (88-05-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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		Outfall Number	
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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
2.	Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
3.	Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
4.	Benzidine (92-97-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
5.	Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
6.	Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
7.	3,4-benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
8.	Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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UPDES Permit No.		Facility Name		Outfall Number	
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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) <i>continued</i>											
9.	Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
10.	Bis (2-chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
11.	Bis (2-chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
12.	Bis (2-chloroisopropyl) ether (102-80-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
13.	Bis (2-ethylhexyl) phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
14.	4-bromophenyl phenyl ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
15.	Butyl benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
16.	2-chlorophthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						

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Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants¹											
	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) <i>continued</i>											
17.	4-chlorophenyl phenyl ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
18.	Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
19.	Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
20.	1,2-dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
21.	1,3-dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
22.	1,4-dichlorobenzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
23.	3,3-dichlorobenzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						
24.	Diethyl phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration						
					Mass						

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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
26.	Di-n-butyl phthalate (84-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
27.	2,4-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
28.	2,6-dinitrotoluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
29.	Di-n-octyl phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
30.	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
31.	Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
32.	Fluorene (86-37-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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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) <i>continued</i>												
33.	Hexachlorobenzene (118-74-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
34.	Hexachlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
35.	Hexachlorocyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
36.	Hexachloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
37.	Indeno (1,2,3-cd) pyrene (193-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
38.	Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
39.	Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
40.	Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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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) <i>continued</i>												
41.	N-nitrosodimethylamine (62-75-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
42.	N-nitrosodi-n-propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
43.	N-nitrosodiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
44.	Phenanthrene (85-01-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
45.	Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
46.	1,2,4-trichlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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Continue to Section 5

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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
2.	α -BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
3.	β -BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
4.	γ -BHC (58-89-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
5.	δ -BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
6.	Chlorodane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
7.	4,4'-DDT (50-29-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
8.	4,4'-DDE (72-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
10.	Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
11.	α-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
12.	β-endosulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
13.	Endosulfan sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
14.	Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
15.	Endrin aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
16.	Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants¹

	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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
18.	PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
19.	PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
20.	PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
21.	PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
22.	PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
23.	PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							
24.	PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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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) <i>continued</i>												
25.	Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concentration							
					Mass							

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Table C. Certain Conventional and Non-Conventional Pollutants¹										
	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
<input type="checkbox"/>	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 <i>each pollutant</i> .									
<input type="checkbox"/>	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 <i>each pollutant</i> .									
1.	Bromide (24959-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
2.	Chlorine, total residual	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
3.	Color	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
4.	E.coli	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
5.	Fluoride (16984-48-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
6.	Nitrate	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
7.	Nitrite	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
8.	Nitrogen, total organic (as N)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					

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Table C. Certain Conventional and Non-Conventional Pollutants¹ 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	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
10.	Phosphorus (as P), total (7723-14-0)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
11.	Sulfate (as SO ₄) (14808-798-)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
12.	Sulfide (as S)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
13.	Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
14.	Surfactants	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
15.	Aluminum, total (7429-90-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
16.	Barium, total (7440-39-3)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
17.	Boron, total (7440-42-8)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						

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Table C. Certain Conventional and Non-Conventional Pollutants¹ <i>continued</i>											
	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)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
19.	Iron, total (7439-89-6)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
20.	Magnesium, total (7439-95-4)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
21.	Molybdenum, total (7439-95-4)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
22.	Manganese, total (7439-95-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
23.	Tin, total (7440-31-5)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						
24.	Titanium, total (7440-32-6)	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>						
				Mass	<input type="checkbox"/>						

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Table C. Certain Conventional and Non-Conventional Pollutants¹ <i>continued</i>										
	Pollutant/Parameter <small>(and CAS Number, if available)</small>	Presence or Absence <small>(check one)</small>		Units <small>(specify)</small>	Effluent				Intake <small>(optional)</small>	
		Believed Present	Believed Absent		Maximum Daily Discharge <small>(required)</small>	Maximum Monthly Discharge <small>(if available)</small>	Long-Term Average Daily Discharge <small>(if available)</small>	Number of Analyses	Long-Term Average	Number of Analyses
25.	Radioactivity									
	Alpha, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
	Beta, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
	Radium, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					
	Radium 226, total	<input type="checkbox"/>	<input type="checkbox"/>	Concentration	<input type="checkbox"/>					
				Mass	<input type="checkbox"/>					

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Table D. Certain Hazardous Substances and Asbestos¹					
	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	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Acetaldehyde	<input type="checkbox"/>	<input type="checkbox"/>		
3.	Allyl alcohol	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Allyl chloride	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Amyl acetate	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Aniline	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Benzonitrile	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Benzyl chloride	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Butyl acetate	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Butylamine	<input type="checkbox"/>	<input type="checkbox"/>		
11.	Captan	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Carbaryl	<input type="checkbox"/>	<input type="checkbox"/>		
13.	Carbofuran	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Carbon disulfide	<input type="checkbox"/>	<input type="checkbox"/>		
15.	Chlorpyrifos	<input type="checkbox"/>	<input type="checkbox"/>		
16.	Coumaphos	<input type="checkbox"/>	<input type="checkbox"/>		
17.	Cresol	<input type="checkbox"/>	<input type="checkbox"/>		
18.	Crotonaldehyde	<input type="checkbox"/>	<input type="checkbox"/>		
19.	Cyclohexane	<input type="checkbox"/>	<input type="checkbox"/>		

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Table D. Certain Hazardous Substances and Asbestos¹ 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)	<input type="checkbox"/>	<input type="checkbox"/>		
21.	Diazinon	<input type="checkbox"/>	<input type="checkbox"/>		
22.	Dicamba	<input type="checkbox"/>	<input type="checkbox"/>		
23.	Dichlobenil	<input type="checkbox"/>	<input type="checkbox"/>		
24.	Dichlone	<input type="checkbox"/>	<input type="checkbox"/>		
25.	2,2-dichloropropionic acid	<input type="checkbox"/>	<input type="checkbox"/>		
26.	Dichlorvos	<input type="checkbox"/>	<input type="checkbox"/>		
27.	Diethyl amine	<input type="checkbox"/>	<input type="checkbox"/>		
28.	Dimethyl amine	<input type="checkbox"/>	<input type="checkbox"/>		
29.	Dinitrobenzene	<input type="checkbox"/>	<input type="checkbox"/>		
30.	Diquat	<input type="checkbox"/>	<input type="checkbox"/>		
31.	Disulfoton	<input type="checkbox"/>	<input type="checkbox"/>		
32.	Diuron	<input type="checkbox"/>	<input type="checkbox"/>		
33.	Epichlorohydrin	<input type="checkbox"/>	<input type="checkbox"/>		
34.	Ethion	<input type="checkbox"/>	<input type="checkbox"/>		
35.	Ethylene diamine	<input type="checkbox"/>	<input type="checkbox"/>		
36.	Ethylene dibromide	<input type="checkbox"/>	<input type="checkbox"/>		
37.	Formaldehyde	<input type="checkbox"/>	<input type="checkbox"/>		
38.	Furfural	<input type="checkbox"/>	<input type="checkbox"/>		

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Table D. Certain Hazardous Substances and Asbestos¹ 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	<input type="checkbox"/>	<input type="checkbox"/>		
40.	Isoprene	<input type="checkbox"/>	<input type="checkbox"/>		
41.	Isopropanolamine	<input type="checkbox"/>	<input type="checkbox"/>		
42.	Kelthane	<input type="checkbox"/>	<input type="checkbox"/>		
43.	Kepone	<input type="checkbox"/>	<input type="checkbox"/>		
44.	Malathion	<input type="checkbox"/>	<input type="checkbox"/>		
45.	Mercaptodimethur	<input type="checkbox"/>	<input type="checkbox"/>		
46.	Methoxychlor	<input type="checkbox"/>	<input type="checkbox"/>		
47.	Methyl mercaptan	<input type="checkbox"/>	<input type="checkbox"/>		
48.	Methyl methacrylate	<input type="checkbox"/>	<input type="checkbox"/>		
49.	Methyl parathion	<input type="checkbox"/>	<input type="checkbox"/>		
50.	Mevinphos	<input type="checkbox"/>	<input type="checkbox"/>		
51.	Mexacarbate	<input type="checkbox"/>	<input type="checkbox"/>		
52.	Monoethyl amine	<input type="checkbox"/>	<input type="checkbox"/>		
53.	Monomethyl amine	<input type="checkbox"/>	<input type="checkbox"/>		
54.	Naled	<input type="checkbox"/>	<input type="checkbox"/>		
55.	Naphthenic acid	<input type="checkbox"/>	<input type="checkbox"/>		
56.	Nitrotoluene	<input type="checkbox"/>	<input type="checkbox"/>		
57.	Parathion	<input type="checkbox"/>	<input type="checkbox"/>		

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Table D. Certain Hazardous Substances and Asbestos¹ 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	<input type="checkbox"/>	<input type="checkbox"/>		
59.	Phosgene	<input type="checkbox"/>	<input type="checkbox"/>		
60.	Propargite	<input type="checkbox"/>	<input type="checkbox"/>		
61.	Propylene oxide	<input type="checkbox"/>	<input type="checkbox"/>		
62.	Pyrethrins	<input type="checkbox"/>	<input type="checkbox"/>		
63.	Quinoline	<input type="checkbox"/>	<input type="checkbox"/>		
64.	Resorcinol	<input type="checkbox"/>	<input type="checkbox"/>		
65.	Strontium	<input type="checkbox"/>	<input type="checkbox"/>		
66.	Strychnine	<input type="checkbox"/>	<input type="checkbox"/>		
67.	Styrene	<input type="checkbox"/>	<input type="checkbox"/>		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	<input type="checkbox"/>	<input type="checkbox"/>		
69.	TDE (tetrachlorodiphenyl ethane)	<input type="checkbox"/>	<input type="checkbox"/>		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	<input type="checkbox"/>	<input type="checkbox"/>		
71.	Trichlorofon	<input type="checkbox"/>	<input type="checkbox"/>		
72.	Triethanolamine	<input type="checkbox"/>	<input type="checkbox"/>		
73.	Triethylamine	<input type="checkbox"/>	<input type="checkbox"/>		
74.	Trimethylamine	<input type="checkbox"/>	<input type="checkbox"/>		
75.	Uranium	<input type="checkbox"/>	<input type="checkbox"/>		

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Table D. Certain Hazardous Substances and Asbestos ¹ <i>continued</i>					
	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	<input type="checkbox"/>	<input type="checkbox"/>		
77.	Vinyl acetate	<input type="checkbox"/>	<input type="checkbox"/>		
78.	Xylene	<input type="checkbox"/>	<input type="checkbox"/>		
79.	Xylenol	<input type="checkbox"/>	<input type="checkbox"/>		
80.	Zioconium	<input type="checkbox"/>	<input type="checkbox"/>		

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Hazardous Substances		
1. Acetaldehyde	54. Benzoyl chloride	255. 2,4,5-T esters (2,4,5-trichlorophenoxy acetic acid esters)
2. Acetic acid	55. Benzyl chloride	256. 2,4,5-T salts (2,4,5-trichlorophenoxy acetic acid salts)
3. Acetic anhydride	56. Beryllium chloride	257. 2,4,5-TP acid (2,4,5-trichlorophenoxy propanoic acid)
4. Acetone cyanohydrin	57. Beryllium fluoride	258. 2,4,5-TP acid esters (2,4,5-trichlorophenoxy propanoic acid esters)
5. Acetyl bromide	58. Beryllium nitrate	259. TDE (tetrachlorodiphenyl ethane)
6. Acetyl chloride	59. Butylacetate	260. Tetraethyl lead
7. Acrolein	60. n-butylphthalate	261. Tetraethyl pyrophosphate
8. Acrylonitrile	61. Butylamine	262. Thallium sulfate
9. Adipic acid	62. Butyric acid	263. Toluene
10. Aldrin	63. Cadmium acetate	264. Toxaphene
11. Allyl alcohol	64. Cadmium bromide	265. Trichlorofon
12. Allyl chloride	65. Cadmium chloride	266. Trichloroethylene
13. Aluminum sulfate	66. Calcium arsenate	267. Trichlorophenol
14. Ammonia	67. Calcium arsenite	268. Triethanolamine
15. Ammonium acetate	68. Calcium carbide	269. Triethylamine
16. Ammonium benzoate	69. Calcium chromate	270. Trimethylamine
17. Ammonium bicarbonate	70. Calcium cyanide	271. Uranyl acetate
18. Ammonium bichromate	71. Calcium dodecylbenzenesulfonate	272. Uranyl nitrate
19. Ammonium bifluoride	72. Calcium hypochlorite	273. Vanadium pentoxide
20. Ammonium bisulfite	73. Captan	274. Vanadyl sulfate
21. Ammonium carbamate	74. Carbaryl	275. Vinyl acetate
22. Ammonium carbonate	75. Carbofuran	276. Vinylidene chloride
23. Ammonium chloride	76. Carbon disulfide	277. Xylene
24. Ammonium chromate	77. Carbon tetrachloride	278. Xylenol
25. Ammonium citrate	78. Chlordane	279. Zinc acetate
26. Ammonium fluoroborate	79. Chlorine	280. Zinc ammonium chloride
27. Ammonium fluoride	80. Chlorobenzene	281. Zinc borate
28. Ammonium hydroxide	81. Chloroform	282. Zinc bromide
29. Ammonium oxalate	82. Chloropyrifos	283. Zinc carbonate
30. Ammonium silicofluoride	83. Chlorosulfonic acid	284. Zinc chloride
31. Ammonium sulfamate	84. Chromic acetate	285. Zinc cyanide
32. Ammonium sulfide	85. Chromic acid	286. Zinc fluoride
33. Ammonium sulfite	86. Chromic sulfate	287. Zinc formate
34. Ammonium tartrate	87. Chromous chloride	288. Zinc hydrosulfite
35. Ammonium thiocyanate	88. Cobaltous bromide	289. Zinc nitrate
36. Ammonium thiosulfate	89. Cobaltous formate	290. Zinc phenolsulfonate
37. Amyl acetate	90. Cobaltous sulfamate	291. Zinc phosphide
38. Aniline	91. Coumaphos	292. Zinc silicofluoride
39. Antimony pentachloride	92. Cresol	293. Zinc sulfate
40. Antimony potassium tartrate	93. Crotonaldehyde	294. Zirconium nitrate
41. Antimony tribromide	94. Cupric acetate	295. Zirconium potassium fluoride
42. Antimony trichloride	95. Cupric acetoarsenite	296. Zirconium sulfate
43. Antimony trifluoride	96. Cupric chloride	297. Zirconium tetrachloride
44. Antimony trioxide	97. Cupric nitrate	
45. Arsenic disulfide	98. Cupric oxalate	
46. Arsenic pentoxide	99. Cupric sulfate	
47. Arsenic trichloride	100. Cupric sulfate ammoniated	
48. Arsenic trioxide	101. Cupric tartrate	
49. Arsenic trisulfide	102. Cyanogen chloride	
50. Barium cyanide	103. Cyclohexane	
51. Benzene	104. 2,4-D acid (2,4-dichlorophenoxyacetic acid)	
52. Benzoic acid		
53. Benzotrile		
	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-dichloropropane 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. Dodecylbenzenesulfonic 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)	



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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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	