



In Reply Refer To: EEO2015-0579

May 1, 2015

VIA FIRST-CLASS MAIL

Mr. Greg Stanton, Deputy Director
County of El Dorado, Environmental Management Department
2850 Fairlane Court, Bldg. C
Placerville, CA 95667

Subject: Union Mine Wastewater Treatment Plant
Wastewater Discharge Permit Number DC-15-029

Dear Mr. Stanton:

Enclosed is the Wastewater Discharge Permit (Permit) for the above-mentioned facility. The Permit requires specific discharge limits, monitoring, and reporting, along with proper disposal of generated waste materials. The Permit also requires that the facility maintain disposal receipts and/or waste manifests on site and make them available for review to El Dorado Irrigation District (EID) personnel during inspections, either announced or unannounced. Such requirements are listed in either the "Reporting Requirements" or the "Special Terms and Conditions" section of the enclosed Permit. This Permit expires April 30th, 2018.

Please be advised Wastewater Discharge Permits are non-transferable. If there is a change of location, change in ownership, or change in operation, the District must be notified and the facility may be required to re-apply for a new Permit.

If you have any questions regarding the Permit, please do not hesitate to contact me at 530-295-6867 or by email at ngraham@eid.org.

Sincerely,

Nicole Graham
Senior Environmental Compliance Officer

NG:jem

Enclosures: Wastewater Discharge Permit No. DC-15-029
Attachment A: Industrial User Specific Effluent Discharge Limits Requirements
Attachment B: CTR-NTR and Other Constituents of Concern List



cc w/enclosures:

El Dorado Irrigation District
Steve Boren, Wastewater Operations and Maintenance Supervisor



EL DORADO IRRIGATION DISTRICT
DEPARTMENT OF ENGINEERING - ENVIRONMENTAL DIVISION
2980 MOSQUITO ROAD • PLACERVILLE • CA • 95667

WASTEWATER DISCHARGE PERMIT
Class: SIU

Permit Number: DC 15-029

Effective Date: May 1, 2015

Expiration Date: April 30, 2018

Renewal Application Due: January 31, 2018

NOT TRANSFERABLE

PERMITTEE IS REQUIRED TO READ THIS MATERIAL IN ITS ENTIRETY

(Service Account Number)
#118678-001

Business Name: County of El Dorado, Environmental Management Department

Facility: Union Mine, Wastewater Treatment Plant

Facility Address: 5700 Union Mine Road, El Dorado, CA 95623

Mailing Address: 2850 Fairlane Court, Bldg. C, Placerville, CA 95667

Union Mine, Wastewater Treatment Plant (UMWWTP)(also referred to as the **Industrial User**) is hereby authorized to discharge Wastewater to the **El Dorado Irrigation District's (EID or District)** Wastewater Treatment Facility as a Significant Industrial User (SIU) effective **May 1, 2015**, subject to said compliance with the conditions stated within this Wastewater Discharge Permit (Permit). The Industrial User must apply for a Permit reissuance a minimum of ninety (90) days prior to the expiration date of this Permit [*EID Administrative Regulation 6021, Section 4.11*]).

Your renewal application is due January 31, 2018.

IN CONSIDERATION OF THE GRANTING OF THIS PERMIT, the Industrial User agrees to abide by all conditions set forth herein.

SECTION A: GENERAL CONDITIONS

The following conditions apply to your facility:

1. This Permit shall be maintained on file at the facility address, and the Industrial User shall comply with all conditions set forth in this Permit, as well as all relevant provisions

of the District's Administrative Regulation 6021 (AR 6021). The capitalized terms and/or the abbreviations within this document are as defined in AR 6021.

2. The Industrial User agrees to cooperate at all times with District personnel. Owners and occupants of the premises where Wastewater is created or discharged shall allow U.S. Environmental Protection Agency (EPA), State, or District representative(s) ready access at all reasonable times to all parts of the premises for the purpose of inspection, sampling or record examination, or in the performance of any of their duties. *[EID Administrative Regulation 6021, Section 6.2(a)]*
3. Enforcement violations of this Permit will be in accordance with the District's Industrial Pretreatment Enforcement Response Plan. The District may take other action against the Industrial User when the circumstances warrant. Further, the District is authorized to take more than one enforcement action against any noncompliant Industrial User including, but not limited to, revocation of Permit, administrative fines, civil liability, and/or termination of domestic water services. In such circumstances where the water service cannot be terminated (such as for public health and safety reasons or the termination would impact other water customers/tenants that are in good standing) the property owner on record, regardless if this is the Industrial User in violation, may be assessed administrative fines and/or penalties. The District has the authority to seek or assess civil or criminal penalties in at least the amount of \$1,000 a day for each violation by the Industrial User. Fines and/or penalties shall be set forth in the current District's Master Fee Schedule (See District AR 11010). *[EID Administrative Regulation 6021, Section 4.15 and Section 8]*
4. Any person who knowingly makes any false statements, representation or certification in any application, record, report, plan or other document filed or required to be maintained for this Permit, or who falsifies, tampers with or knowingly renders inaccurate any monitoring device or method required under this Permit, shall, upon conviction, be punished by a fine of not more than ten thousand dollars (\$10,000.00) or by imprisonment for not more than six (6) months, or both. *[EID Administrative Regulation 6021, Section 8.13.3]*
5. The Industrial User is subject to applicable civil and criminal penalties for violation of Pretreatment Standards and requirements, and any applicable compliance schedules. Such schedules may not extend the compliance date beyond applicable federal deadlines. *[EID Administrative Regulation 6021, Section 4.12 (q)]*
6. This Permit shall not be reassigned or transferred or sold to a new owner, new User, different premises, or a new or changed operation without the approval of the District. Any succeeding owner or User shall also comply with the terms and conditions of this Permit while applying for a new Permit. *[EID Administrative Regulation 6021, Section 4.14]*
7. Upon invalidation or expiration of this Permit, authorization to discharge is terminated. When an application is submitted within ninety (90) calendar days, the existing Permit is to continue in effect until a new permit is issued by the District. *[EID Administrative Regulation 6021, Section 4.2 and 4.11]*
8. The terms and conditions of this Permit may be modified or deleted by the District as a result of EPA promulgation of any federal Pretreatment Standards or if other just cause exist. The Industrial User shall be informed at least thirty (30) calendar days prior to the

effective date of the change. *[EID Administrative Regulation 6021, Section 2.8 and 4.13]*

9. The terms and conditions of this Permit may be modified or deleted by the District at the time as limitations or requirements as identified by the District's administrative regulations are modified or other just cause exists. The Industrial User shall be informed at least thirty (30) days prior to the effective date of the change whenever feasible. *[EID Administrative Regulation 6021, Section 4.13]*
10. If any condition of this Permit is deemed invalid, the remainder of this Permit shall not be affected. *[EID Administrative Regulation 6021, Section 11]*
11. All records, documents, memoranda and reports relating to the monitoring, sampling and chemical analysis of the Wastewater and compliance with required Best Management Practices (BMPs) shall be retained and preserved for no less than three (3) years. Said records, documents, memoranda and reports shall be available for inspection and copying by the District. *[Administrative Regulation 6021, Section 5.18]*
12. Copies of all hazardous waste disposal manifests shall be maintained on file for periodic review by District staff. Retention period shall be no less than three (3) years. *[EID Administrative Regulation 6021, Section 5.18]*
13. Reports required by this Permit shall be available for public inspection upon request, except for data determined to be confidential. *[EID Administrative Regulation 6021, Section 7]*
14. The District shall conduct random sampling and analysis of the effluent and conduct inspections activities in order to identify, independent of information supplied by the Industrial User, compliance with the Permit conditions. *[EID Administrative Regulation 6021, Section 5.14 (g)]*
15. The District shall be reimbursed for all costs, including overhead incurred for labor, sampling, laboratory analysis and equipment, as a result of the Industrial User failing to comply with any provisions of the District's Administrative Regulation 6021 and any remediation due to damage to the collection and treatment systems from the Industrial User's Sewer discharge. *[EID Administrative Regulation 6021, Section 8.14]*

SECTION B: DISCHARGE LIMITATIONS

The following discharge limitations apply to all Industrial Users:

These general prohibitions apply to all such Users of the POTW, whether or not the User is subject to the categorical Pretreatment Standards or any other national, state, or local Pretreatment Standards or requirements.

1. It is unlawful for any User to contribute or cause to be contributed, directly or indirectly, any Pollutant or Wastewater which will interfere with operations, the performance of the POTW, or cause Pass Through or Interference. *[EID Administrative Regulation 6021, Section 2.1(a)]*

2. Any liquids, solids or gases which by reason of their nature or quantity are, or may be, sufficient either alone or by interaction with other substances to cause fire or explosion or be injurious in any other way to the POTW or to the operation of the POTW, including, but not limited to, waste streams with a closed- cup flashpoint of less than 140° F or 60° C. *[EID Administrative Regulation 6021, Section 2.1(b)(1)]*
3. Any Wastewater with a pH less than 5.0 or greater than 9.0, or having any corrosive or detrimental characteristic that may cause injury to District personnel, or may cause damage to structures, equipment or other physical facilities of the District's Sewer System. *[EID Administrative Regulation 6021, Section 2.1(b)(2)]*
4. No User shall discharge or cause to be discharged to the District's Sewer System, any waste that creates a stoppage, plugging, breakage, any significant reduction in Sewer capacity, or any other damage to Sewers or Sewerage facilities of the District. Any excessive Sewer or Sewerage maintenance expenses or any other expenses attributable thereto will be charged to the Industrial User by the District. *[EID Administrative Regulation 6021, Section 2.1(b)(3)]*
5. Any Pollutants, including oxygen-demanding Pollutants (e.g., BOD) released in a discharge at a flow rate and/or Pollutant concentration which will cause Interference to the POTW. *[EID Administrative Regulation 6021, Section 2.1(b)(4)]*
6. Any Wastewater having a temperature of 60 degrees Celsius (140 degrees Fahrenheit) or more at the point of discharge into the Sewer, or which contains heat in amount which will inhibit biological activity in the POTW resulting Interference, but in no case at temperatures in such quantities that will cause the temperature at the Treatment Plant influent to exceed 40 degrees Celsius (104 degrees Fahrenheit). *[EID Administrative Regulation 6021, Section 2.1(b)(5)]*
7. Any petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that will cause Interference or Pass Through. *[EID Administrative Regulation 6021, Section 2.1(b)(6)]*
8. Any Pollutants which result in the presence of toxic gases, vapors, or fumes within the POTW in a quantity that may cause acute worker health and safety problems. *[EID Administrative Regulation 6021, Section 2.1(b)(7)]*
9. Any Wastewater with objectionable color not removed in the treatment process. *[EID Administrative Regulation 6021, Section 2.1(b)(9)]*
10. No User shall discharge or cause to be discharged any rainwater, storm water, ground water, street drainage, subsurface drainage, roof drainage, yard drainage, water from yard fountains, or ponds. Every wash rack and/or floor or slab drain used shall be adequately protected against storm or surface inflow. The District may approve the discharge of such water on a temporary basis only when no alternate method of disposal is reasonably available. *[EID Administrative Regulation 6021, Section 2.1(b)(10)]*
11. Any Wastewater containing radioactive material in sufficient quantity to interfere with any treatment process or constitute a hazard to humans or animals. *[EID Administrative Regulation 6021, Section 2.1(b)(11)]*

12. No User shall discharge any substances directly into a manhole or other opening in District's Sewer System other than through a District approved Sewer connection. *[EID Administrative Regulation 6021, Section 2.1(c)(1)]*
13. Except where expressly authorized to do so by an applicable Pretreatment Standard or requirement, the Industrial User shall not increase the use of process water, or any other way attempt to dilute a discharge as partial or complete substitute for adequate pretreatment to achieve compliance with a Pretreatment Standard, requirement or discharge limitation. The District may impose mass-based limitations if it is deemed appropriate. *[EID Administrative Regulation 6021, Section 2.1(d)(1)]*
14. Prohibition on Accidental or Slug Discharges:
 - a. Any Pollutant including oxygen-demanding Pollutants, at a flow rate and/or concentration, which cause interference with the Wastewater treatment process. For the purpose of this section, any discharge at a flow rate or concentration which could cause a violation of the prohibited standards of District's regulatory limits of this document shall be deemed an accidental or Slug Discharge. Measures to prevent Slug Discharge of prohibited materials shall be provided and maintained at the Industrial User's expense. *[EID Administrative Regulation 6021, Section 2.1(e)(1)]*
15. Bypass Prohibition: *[EID Administrative Regulation 6021, Section 2.1(f)]*
 - a. A bypass of a treatment system is prohibited unless all of the following conditions are met:
 - i. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii. There was no feasible alternative to the bypass, including the use of auxiliary treatment or retention of the Wastewater; and
 - iii. The industrial User properly notified the District as described below.
 - b. The Industrial Users must provide immediate notice to the District upon discovery of an unanticipated bypass. If necessary, the District may require the Industrial User to submit a written report explaining the cause(s), nature, and duration of the bypass and the steps being taken to prevent its recurrence. The written report shall be submitted within five (5) days after a slug discharge.
 - c. The Industrial User may allow a bypass to occur which does not cause Pretreatment Standards or requirements to be violated, but only if it is for essential maintenance to ensure efficient operation of the treatment system. If the Industrial User is anticipating a bypass it must submit notice to the District at least five (5) calendar days in advance. The District may only approve the anticipated bypass if the circumstances satisfy those set forth in paragraph a. above.
1. The Industrial User shall refrain from discharging any Wastewater in excess of District regulatory limits in **Attachment A**. These Industrial User specific discharge limits shall apply to ALL non-domestic wastewaters at the point where the all wastewaters

discharge, after any and all pretreatment, to the Sewer (also called “end of pipe”). All concentrations for metallic substances are for “total” metals unless indicated otherwise. *{EID Administrative Regulation 6021, Section 2.4}*

SECTION C: MONITORING AND REPORTING REQUIREMENTS

The following administrative conditions apply to your facility:

2. The Industrial User shall submit a report indicating the concentration of specific Pollutants (**see Attachment A and B**) discharged in the effluent. These reports must include **all monitoring results** obtained in accordance with the requirements listed in this Permit for the period covered by the report, including those from monitoring conducted more frequently than required. *[EID Administrative Regulation 6021, Section 5.6]*
3. All Pollutant analyses, including sampling techniques, shall be performed in accordance with the procedures established by the EPA pursuant to Section 304(h) of the Act (33 U.S.C. §1314(h)) and contained in 40 CFR, Part 136, and amendments thereto, or with other test procedures approved by the EPA. For those parameters for which there are no analytical procedures listed in 40 CFR, Part 136 or approved by EPA, validated analytical test procedures may be specifically required or allowed by the District. *[EID Administrative Regulation 6021, Section 5.13]*
4. Sample Collection
 - a. Sampling for compliance determination for District established Industrial User - specific discharge limits (**See Attachment A**) shall be taken “end-of-pipe”: at a point or points, representative of the entire discharge of all non-domestic wastewaters emanating from the Industrial User, and where the wastewaters discharge to the POTW. *[EID Administrative Regulation 6021, Section 5.14(e)]*
 - b. All sampling of the discharge must be representative of daily operations, of the conditions occurring during the reporting period, and of the discharge.
5. Reports shall contain results of sampling and analysis identifying the nature and concentration (or mass, where required by the District) of regulated Pollutants in the discharge from each regulated process. Both daily maximum and average concentration (or mass, where required) shall be reported. Sampling shall be representative of daily operations.
6. The following information shall be recorded for each measurement or sample taken pursuant to the requirements of this Permit: *[EID Administrative Regulation 6021, Section 5.15]*
 - a. Sample location, date, type (composite or grab), and time of sampling. If a composite sampler is used, the information shall include the volume collected for each sample as well as the frequency of collection. If a series of Grab Samples is used, the information shall include the volume collected as well as the time collected for each Grab Sample;
 - b. Preservation method;

- c. Date(s) the analyses were performed;
 - d. Analytical technique(s) or method(s) used;
 - e. Results of all required analyses;
 - f. Detection limits; and
 - g. Copies of all analytical reports (including chain of custodies and Quality Assurance and Quality Control summaries).
7. By December 31st of each year, a copy of the certificate of calibration for the effluent meter(s) shall be submitted to the District. Certification is to be done by a qualified trained professional. *[EID Administrative Regulation 6021, Section 5.16]*
8. If the Industrial User discovers it inadvertently is discharging or discharged into the sewer a substance which, if otherwise disposed of, would be classified as hazardous waste under 40 CFR., Part 261 shall notify, in writing, the District, the EPA Regional Waste Management Division Director, and El Dorado County Environmental Management Department (as the State hazardous waste authority). Such notification shall follow the precepts found in 40 CFR 403.12 (p). *[EID Administrative Regulation 6021, Section 5.10]*
9. The Industrial User must notify the District of any planned significant changes (temporary or permanent) to the User's industrial processes, operations or pretreatment system which might alter the nature, character, or volume of its Wastewater at least thirty (30) calendar days before the change. For purposes of this requirement, significant changes include, but are not limited to change in chemicals, flow increases of twenty percent (20%) or greater, and/or the discharge of any previously unreported Pollutants, discharge location, pretreatment, business hours, principal executive officer and/or designee. *[EID Administrative Regulation 6021, Section 5.11]*
10. The Industrial Users shall notify the District immediately by telephone upon becoming aware of accidentally discharging any non-Discharge Permitted waste(s), waste in quantities that exceed Discharge Permitted amounts, or any waste in any quantity that could cause disruption of the Sewer System or of the POTW. The notification shall include location of the discharge, type of waste, concentration and volume, and corrective actions. Such reporting shall be detailed enough to enable countermeasures to be taken by the District to minimize damage to the Sewer System, POTW, and receiving waters. *[EID Administrative Regulation 6021,5.12]*
- a. Written Notice: The verbal notification shall be followed via certified mail within five (5) calendar days of the date of occurrence, by a detailed written statement describing the causes of the accidental discharge, specific names and quantity of Pollutants discharged, volume of discharge, the duration of the discharge, and the measures being taken to prevent future occurrences. Such notification will not relieve Users of liability for any expense, loss, or damage to the Sewer System and or POTW or for any fines imposed on the District on account thereof under Section 13350 of the California Water Code, or for violations of Section 5650 of the California Fish and Game Code, or for violation of any other applicable provisions of federal or State law. *[EID Administrative Regulation 6021,3.3(d)(1)]*

11. A notice shall be permanently posted on the User's bulletin board or other prominent place advising employees whom to call in the event of a potentially dangerous discharge. Employers shall ensure that all employees who may cause or suffer such a potentially dangerous discharge to occur are advised of the emergency notification procedures. *[EID Administrative Regulation 6021,3.3(e)]*
12. All reports required by this Permit shall be signed by an authorized representative as described in 40 C.F.R. 403.12(l) and shall contain the following certification statement:

"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." *[EID Administrative Regulation 6021, 5.17]*

SECTION D: SPECIAL TERMS AND CONDITIONS

The following conditions apply specifically to your facility:

1. The material to be discharged shall be limited to septage and portable toilet waste received by truck from local haulers along with leachate and landfill gas flare condensate collected from the landfill and treated at the Union Mine Wastewater Treatment Plant. This Permit will allow for the collection of rainwater in the uncovered holding tanks to be mixed with effluent prior to and during batched discharges.
2. If it becomes necessary for the Industrial User to install a pretreatment system to meet the discharge regulatory limits in **Attachment A**, the Industrial User shall not modify or change the initially approved pretreatment system prior to receiving a written approval from the District. *[EID Administrative Regulation 6021, Section 5.11]*
3. Prior to any discharge, all material wishing to be discharged shall be collected (batched) into a holding tank, isolated, and tested for each constituent itemized in **Attachment A**.
4. **Prior to the first discharge in each calendar year**, all material wishing to be discharged shall be collected (batched) into a holding tank, isolated, and tested for each constituent itemized in **Attachment B**. Items listed in Attachment B are only required to be monitored and reported one (1) time per calendar year; the Industrial User is required to monitor for Attachment B on the first discharge event of the year.
5. The sewer discharge and sampling point from the final effluent holding tank shall be designated as "IWD 1".
6. Once effluent samples have been collected for laboratory analysis, the holding tank shall be isolated and no additional Wastewater shall be added to the batched effluent wishing to be discharged.

7. Confirmed analytical results for each batch of effluent analyzed shall be submitted to the District along with the volume and proposed flow in gallons per minute and a summary table demonstrating compliance with discharge limits listed in **Attachment A**.
8. After all requested information has been submitted, the District shall make a determination of the discharge request within seven (7) calendar days. The Industrial User shall, after receiving written permission to discharge a specific batch to the District, verbally inform the District of the date, approximate time, duration and volume of discharge before commencing each release. The District reserves the right to coordinate batch discharges with WWTP operational demands.
9. Flow meter reading shall be taken and recorded prior to, and immediately after the discharge, recording the volume of the discharge. The following information shall be recorded for each discharge and forwarded to the District immediately upon receipt.
 - a. Date of discharge
 - b. Pump start and stop times in 24-hour (military) time
 - c. Flow rate in gallons per minute
 - d. Total gallons delivered
 - e. Responsible Operator printed name and signature.
10. At the conclusion of each batch discharge, the above requested information shall be submitted to EID within seven (7) calendar days after the discharge has been completed, along with signed statement as outlined in Section C, Item 5.
11. The volume of instantaneous **discharge shall not exceed 100 gallons per minute or 144,000 gallon per day**. Any variations in excess of these parameters must first be approved, in writing, from the District.
12. The Industrial User shall be billed for batch discharges based upon total volume of discharge, in each billing cycle, in accordance with the District's current Rate Schedule based on the Commercial Sewer Use Classification assigned to each batched discharge. The Industrial User shall maintain their billing account in good standing; if said account is found to be in arrears no future discharges will be approved until the account is paid current.
13. In the event of an unauthorized discharge, the Industrial User shall be responsible for any and all necessary remedial measures to adequately correct impacts or any legal liability resulting from the unauthorized discharge.
14. **Constituents as well as maximum limits shown in Attachment A and/or B are subject to change** and may vary during the term of this Permit as a result of new discharge limits imposed upon District Wastewater Treatment Plants.

SECTION E: CONTACTS

All reports, correspondence and contact shall be submitted to the following:

1. Reports and Correspondence

El Dorado Irrigation District
Environmental Division - Industrial Pretreatment Program
2890 Mosquito Road
Placerville, CA 95667

2. Contact Information

- a. Nicole Graham, Senior Environmental Compliance Officer at 530.295.6867 (Normal Business Hours).
- b. Dan Corcoran, Environmental Division Manager at 530.642.4082 (Normal Business Hours).
- c. EID Dispatch at 530.622.4513 (After Hours, Weekends, and Holidays).



Nicole Graham
Senior Environmental Compliance Officer

5/1/2015
Date

El Dorado Irrigation District

Industrial User Specific Effluent Discharge Limits Requirements
for the

Union Mine Wastewater Treatment Plant

Permit # DC 15-029

Parameter	Recommended Analytical Method	Minimum Analytical Reporting Limit (mg/L) ⁽³⁾⁽⁴⁾⁽⁵⁾	Daily Maximum Discharge Limit mg/L ⁽⁵⁾	Daily Maximum Discharge Limit (ppd) ⁽⁶⁾
Flow	n/a	n/a	144,000 gal./day	TBD
pH ⁽¹⁾	EPA 150.1	1 S.U.	See Footnote	See Footnote
Temperature ⁽²⁾	n/a	20 °F	140 °F	140 °F
4,4'-DDT	EPA 608	0.0001	< 0.0001	~ ~
Bis (2-ethylhexyl) phthalate	EPA 625	0.005	0.0134	~ ~
Heptachlor	EPA 608	0.00005	< 0.00005	~ ~
Total Lead	EPA 200.8	0.0005	0.005	0.006
Methyl tert-butyl ether (MTBE)	EPA 624	0.003	0.003	0.004
Total Dissolved Solids (TDS)	SM2540C	10	300	360
Total Zinc	EPA 200.8	0.01	0.145	~ ~

Footnotes:

- (1) pH of all discharges shall be no less 5.0 and no greater than 9.0 S.U.
- (2) No discharge shall be in excess of 140°F or cause the influent at the POTW to exceed 104°F.
- (3) The Analytical Reporting Limit is the limit at which the laboratory can report constituent concentrations with certainty.
- (4) The Analytical Reporting Limits shall be equal to or less than the level published in Appendix 4 of the State Water Resources Control Board State Implementation Plan (SIP). When a level is not published, the District will apply historical minimum levels provided in its independent monitoring.
- (5) mg/L= milligrams per liter and ppd = pounds per day.
- (6) If the Discharger cannot meet the daily concentration limit for Lead, MTBE or TDS it may elect to reduce its daily flow and calculate the ppd to meet compliance.

Union Mine Wastewater Treatment Plant
 CTR-NTR and Other Constituents of Concern List
 (Monitor Only, No Discharge Limit)

List 1: From the CTR/NTR Constituents List					
Recommended Analytical Method	CTR #	Constituent Name	Alternate Constituent Name	Units	Minimum Analytical Reporting Limit (RL) (1)(2)
APHA/EPA Conventional Chemistry Parameters					
APHA/EPA	5b	Hexavalent Chromium (VI)	Chromium (VI)	ug/l	5
APHA/EPA	14	Cyanide	Cyanide	mg/L	5
EPA 200 Series					
200	1	Antimony (Sb)	Antimony (Sb)	ug/l	5
200	2	Arsenic (As)	Arsenic (As)	ug/l	1
200	3	Beryllium (Be)	Beryllium (Be)	ug/l	1
200	4	Cadmium (Cd)	Cadmium (Cd)	ug/l	0.25
200	5a	Chromium (Cr)	Chromium (Cr)	ug/l	2
200	6	Copper (Cu)	Copper (Cu)	ug/l	0.5
200	8	Mercury (Hg)	Mercury (Hg)	ug/l	0.5
200	9	Nickel (Ni)	Nickel (Ni)	ug/l	5
200	10	Selenium (Se)	Selenium (Se)	ug/l	5
200	11	Silver (Ag)	Silver (Ag)	ug/l	1
200	12	Thallium (Tl)	Thallium (Tl)	ug/l	1
Organochlorine (OC) Pesticides					
608	110	4,4'-DDD	4,4'-DDD	ug/l	0.05
608	109	4,4'-DDE	4,4'-DDE	ug/l	0.05
608	102	Aldrin	Aldrin	ug/l	0.005
608	103	Alpha BHC	Alpha BHC	ug/l	0.01
608	104	Beta BHC	Beta BHC	ug/l	0.005
608	107	Chlordane	Chlordane	ug/l	0.1
608	106	Delta BHC	Delta BHC	ug/l	0.005
608	111	Dieldrin	Dieldrin	ug/l	0.01
608	112	Endosulfan I	alpha-Endosulfan	ug/l	0.02
608	113	Endosulfan II	beta-Endosulfan	ug/l	0.01
608	114	Endosulfan sulfate	Endosulfan sulfate	ug/l	0.05
608	115	Endrin	Endrin	ug/l	0.01
608	116	Endrin Aldehyde	Endrin Aldehyde	ug/l	0.01
608	105	Gamma BHC (Lindane)	Gamma BHC	ug/l	0.02
608	117	Heptachlor	Heptachlor	ug/l	0.01
608	118	Heptachlor epoxide	Heptachlor epoxide	ug/l	0.01
608	126	Toxaphene	Toxaphene or Strobane	ug/l	0.5
Polychlorinated Biphenyls (PCBs)					
608	119	Aroclor 1016	Polychlorinated biphenyls (PCBs)	ug/l	0.5
608	120	Aroclor 1221	Polychlorinated biphenyls (PCBs)	ug/l	0.5
608	121	Aroclor 1232	Polychlorinated biphenyls (PCBs)	ug/l	0.5
608	122	Aroclor 1242	Polychlorinated biphenyls (PCBs)	ug/l	0.5
608	123	Aroclor 1248	Polychlorinated biphenyls (PCBs)	ug/l	0.5
608	124	Aroclor 1254	Polychlorinated biphenyls (PCBs)	ug/l	0.5
608	125	Aroclor 1260	Polychlorinated biphenyls (PCBs)	ug/l	0.5
Polynuclear Aromatic Hydrocarbons (PAHs)					
610	56	Acenaphthene	Acenaphthene	ug/l	1
610	57	Acenaphthylene	Acenaphthylene	ug/l	10
610	58	Anthracene	Anthracene	ug/l	10
610	60	Benzo (a) anthracene	Benzo (a) anthracene	ug/l	0.1
610	61	Benzo (a) pyrene	Benzo (a) pyrene	ug/l	10
610	62	Benzo (b) fluoranthene	Benzo (b) fluoranthene	ug/l	0.5
610	63	Benzo (g,h,i) perylene	Benzo (g,h,i) perylene	ug/l	5
610	64	Benzo (k) fluoranthene	Benzo (k) fluoranthene	ug/l	10
610	73	Chrysene	Chrysene	ug/l	10
610	74	Dibenzo (a,h) anthracene	Dibenzo (a,h) anthracene	ug/l	10
610	86	Fluoranthene	Fluoranthene	ug/l	10
610	87	Fluorene	Fluorene	ug/l	10
610	92	Indeno (1,2,3-c,d) pyrene	Indeno (1,2,3-c,d) pyrene	ug/l	10
610	94	Naphthalene	Naphthalene	ug/l	1
610	99	Phenanthrene	Phenanthrene	ug/l	5
610	100	Pyrene	Pyrene	ug/l	10

El Dorado Irrigation District

Union Mine Wastewater Treatment Plant
CTR-NTR and Other Constituents of Concern List
(Monitor Only, No Discharge Limit)

Recommended Analytical Method	CTR #	Constituent Name	Alternate Constituent Name	Units	Minimum Analytical Reporting Limit (RL) (1)(2)
Semivolatile Organic Compounds (SVOCs)					
625	85	1, 2-Diphenylhydrazine	1, 2-Diphenylhydrazine	ug/l	1
625	55	2,4,6-Trichlorophenol	2,4,6-Trichlorophenol	ug/l	10
625	46	2,4-D	2,4-Dichlorophenol	ug/l	5
625	47	2,4-Dimethylphenol	2,4-Dimethylphenol	ug/l	2
625	49	2,4-Dinitrophenol	2,4-Dinitrophenol	ug/l	5
625	82	2,4-Dinitrotoluene	2,4-Dinitrotoluene	ug/l	5
625	83	2,6-Dinitrotoluene (2,6 DNT)	2,6-Dinitrotoluene (2,6 DNT)	ug/l	5
625	71	2-Chloronaphthalene	2-Chloronaphthalene	ug/l	10
625	45	2-Chlorophenol	2-Chlorophenol	ug/l	2
625	50	2-Nitrophenol	2-Nitrophenol	ug/l	10
625	78	3,3'-Dichlorobenzidine	3,3'-Dichlorobenzidine	ug/l	5
625	48	4,6 Dinitro-2-methylphenol	2-Methyl-4,6-Dinitrophenol	ug/l	10
625	69	4-Bromophenyl phenyl ether	4-Bromophenyl phenyl ether	ug/l	10
625	52	4-Chloro-3-methylphenol	3-Methyl-4-Chlorophenol	ug/l	5
625	72	4-Chlorophenyl phenyl ether	4-Chlorophenyl phenyl ether	ug/l	5
625	51	4-Nitrophenol	4-Nitrophenol	ug/l	10
625	59	Benzidine	Benzidine	ug/l	5
625	65	Bis (2-chloroethoxy) methane	Bis (2-chloroethoxy) methane	ug/l	5
625	66	Bis (2-chloroethyl) ether	Bis (2-chloroethyl) ether	ug/l	1
625	67	Bis (2-chloroisopropyl) ether	Bis (2-chloroisopropyl) ether	ug/l	10
625	70	Butyl benzyl phthalate	Butyl benzyl phthalate	ug/l	10
625	79	Diethyl phthalate	Diethyl phthalate	ug/l	2
625	80	Dimethyl phthalate	Dimethyl phthalate	ug/l	2
625	81	Di-n-butyl phthalate	Di-n-butyl phthalate	ug/l	10
625	84	Di-n-octyl phthalate	Di-n-octyl phthalate	ug/l	10
625	88	Hexachlorobenzene	Hexachlorobenzene	ug/l	1
625	90	Hexachlorocyclopentadiene	Hexachlorocyclopentadiene	ug/l	5
625	91	Hexachloroethane	Hexachloroethane	ug/l	1
625	93	Isophorone	Isophorone	ug/l	1
625	95	Nitrobenzene	Nitrobenzene	ug/l	10
625	96	N-Nitrosodimethylamine	N-Nitrosodimethylamine	ug/l	2
625	97	N-Nitroso-di-n-propylamine	N-Nitroso-di-n-propylamine	ug/l	5
625	98	N-Nitrosodiphenylamine	N-Nitrosodiphenylamine	ug/l	1
625	53	Pentachlorophenol	Pentachlorophenol	ug/l	5
625	54	Phenol	Phenol	ug/l	1
Volatile Organic Compounds (VOCs)					
624	17	Acrolein	Acrolein	ug/l	5
624	18	Acrylonitrile	Acrylonitrile	ug/l	2
624	19	Benzene	Benzene	ug/l	2
624	27	Bromodichloromethane	Dichlorobromomethane	ug/l	2
624	20	Bromoform	Bromoform	ug/l	2
624	34	Bromomethane	Methyl bromide	ug/l	2
624	21	Carbon Tetrachloride	Carbon Tetrachloride	ug/l	2
624	22	Chlorobenzene	Chlorobenzene	ug/l	2
624	24	Chloroethane	Chloroethane	ug/l	2
624	26	Chloroform	Chloroform	ug/l	2
624	23	Dibromochloromethane	Chlorodibromomethane	ug/l	2
624	32	1,3-Dichloropropene	1,3-Dichloropropylene	ug/l	2
624	25	2-Chloroethyl vinyl ether	2-Chloroethyl vinyl ether	ug/l	1
624	35	Chloromethane	Methyl chloride	ug/l	2
624	75	1,2-Dichlorobenzene	1,2-Dichlorobenzene	ug/l	2
624	76	1,3-Dichlorobenzene	1,3-Dichlorobenzene	ug/l	2
624	77	1,4-Dichlorobenzene	1,4-Dichlorobenzene	ug/l	2
624	28	1,1-Dichloroethane	1,1-Dichloroethane	ug/l	1
624	29	1,2-Dichloroethane	1,2-Dichloroethane	ug/l	2
624	30	1,1-Dichloroethene	1,1-Dichloroethylene	ug/l	2
624	40	Trans-1,2-dichloroethene	1,2-Trans-dichloroethylene	ug/l	1
624	31	1,2-Dichloropropane	1,2-Dichloropropane	ug/l	1
624	33	Ethylbenzene	Ethylbenzene	ug/l	2
624	89	Hexachlorobutadiene	Hexachlorobutadiene	ug/l	1
624	36	Methylene chloride	Dichloromethane	ug/l	2
624	37	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	ug/l	1
624	38	Tetrachloroethene	Tetrachloroethylene	ug/l	2
624	39	Toluene	Toluene	ug/l	2
624	101	1,2,4-Trichlorobenzene	1,2,4-Trichlorobenzene	ug/l	5
624	42	1,1,2-Trichloroethane	1,1,2-Trichloroethane	ug/l	2
624	41	1,1,1-Trichloroethane	1,1,1-Trichloroethane	ug/l	2
624	43	Trichloroethene	Trichloroethylene	ug/l	2
624	44	Vinyl Chloride	Vinyl Chloride	ug/l	2

Union Mine Wastewater Treatment Plant
 CTR-NTR and Other Constituents of Concern List
 (Monitor Only, No Discharge Limit)

Recommended Analytical Method	CTR #	Constituent Name	Alternate Constituent Name	Units	Minimum Analytical Reporting Limit (RL) (1)(2)
List 2: Other Constituents of Concern					
Persistent Chlorinated Hydrocarbon Pesticides					
608		Captan	Captan	ug/l	0.05
515.1		2,4-D	2,4-D	ug/l	10
515.1		2,4-DB	2,4-DB	ug/l	2
515.1		Bentazon	Bentazon	ug/l	2
515.1		Dalapon	Dalapon	ug/l	10
515.1		Dicamba	Dicamba	ug/l	1
608		(DCNA, Allisan)	Dichloran	ug/l	0.05
515.1		2,4-DP	Dichloroprop	ug/l	2
608		Dicofol	Dicofol	ug/l	0.05
515.1		Dinoseb	Dinoseb	ug/l	2
608		Isodrin	Isodrin	ug/l	0.05
608		Kepone	Kepone	ug/l	0.05
515.1		MCPA	MCPA	ug/l	200
515.1		MCPP	MCPP	ug/l	200
608		Methoxychlor	Methoxychlor	ug/l	0.5
608		Mirex	Mirex	ug/l	0.1
608		Pentachloronitrobenzene	PCNB (pentachloronitrobenzene)	ug/l	0.05
608		Perthane	Perthane	ug/l	0.5
608		Strobane	Strobane	ug/l	0.5
515.1		2,4,5-T	2,4,5-T	ug/l	0.5
515.1		2,4,5 TP(Silvex)	2,4,5 TP(Silvex)	ug/l	1
Metals and Inorganic Constituents					
300		Nitrate plus Nitrite	Nitrate plus Nitrite	mg/L	5
SM4500-NH3C		Ammonia	Ammonia	mg/L	2
SM5210B		Biological Oxygen Demand	BOD	mg/L	3
120.1		Specific Conductance	Electric Conductivity	mg/L	10
SM2540D		Total Suspended Solids	TSS	mg/L	5
Volatile Organic Compounds (VOCs)					
624		Styrene	Styrene	ug/l	0.5
624		Trichlorofluoromethane	Trichlorofluoromethane	ug/l	5
624		1,1,2-trichloro-1,2,2-trifluoromethane	1,1,2-trichloro-1,2,2-trifluoromethane	ug/l	10
624		Xylenes	Xylenes	ug/l	0.5

Footnote:

(1) The Analytical Reporting Limits is the limit at which the laboratory can report constituent concentrations with
 (2) The Analytical Reporting Limits shall be equal to or less than the level published in Appendix 4 of the State Water Resources Control Board *State Implementation Plan (SIP)*. When a level is not published, the District has applied historical minimum levels obtained during self monitoring events.