EXHIBIT 10 ADMINISTRATIVE RECORD # 120



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 6 1445 ROSS AVENUE, SUITE 1200 DALLAS, TX 75202-2733

JUL 2 (2009

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (P 7007 2560 0002 7737 2933)

REPLY TO: 6WQ-NP

San Jacinto River Authority Donald R. Sarich, Division Manager P.O. Box 7537 Woodlands, TX 77387

Re: Application to Discharge to Waters of the United States Permit No. TX0054186 San Jacinto River Authority, Woodlands POTW No. 1.

Dear Mr. Sarich:

This package constitutes EPA's final permit decision for the above referenced facility. Enclosed are the responses to comments received during the public comment period and the final permit. According to EPA regulations at 40 <u>CFR</u> 124.19, within 30 days after a final permit decision has been issued, any person who filed comments on that draft permit or participated in the public hearing may petition the Environmental Appeals Board to review any condition of the permit decision.

Should you have any questions regarding the final permit, please feel free to contact Laurence Giglio of the NPDES Permits Branch at the above address or by telephone: (214) 665-6639, by fax: (214) 665-2191, or by E-mail: giglio.larry@epa.gov. Should you have any questions regarding compliance with the conditions of this permit, please contact the Water Enforcement Branch at the above address or by telephone: 214-665-6468.

Sincerely yours

Bill Luthans Acting Director Water Quality Protection Division

Enclosures

cc w/enclosures:

L'Oreal Stepney, Water Quality Director, TCEQ



REGION 6 1445 ROSS AVENUE DALLAS, TEXAS 75202-2733

NPDES Permit No TX0054186

AUTHORIZATION TO DISCHARGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et. seq; the "Act"),

San Jacinto River Authority (SJRA) Woodlands Wastewater Treatment Plant No. 1 2436 Sawdust Road The Woodlands, TX 77380

is authorized to discharge from a facility located at 2436 Sawdust Road, The Woodlands, Montgomery County, Texas,

from Outfall 001 located at Latitude 30° 08' 06" North, Longitude 95° 28' 38" West, to Panther Branch, thence Spring Creek and Outfall 002 located at Latitude 30° 08' 31.5" North, Longitude 95° 28' 14.9" West, to Lake "B", the upper portion of Harrison Lake, thence to a tributary of Panther Branch, thence to Panther Branch, thence to Spring Creek, both in Segment 1008 of the San Jacinto River Basin,

in accordance with this cover page and the effluent limitations, monitoring requirements, and other conditions set forth in Part I, Part II, Part III and Part IV hereof.

This is a modification of a permit previously issued September 28, 2007, with a permit effective date of November 1, 2007, and a permit expiration date of October 31, 2012.

This permit and the authorization to discharge shall expire at midnight, October 31, 2012.

Issued on **Bill Luthans**

Bill Luthans ' Acting Director Water Quality Protection Division (6WQ) Prepared by

Laurence E. Giglio Environmental Engineer Permits & Technical Section (6WQ-PP)

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PART I – REQUIREMENTS FOR NPDES PERMITS

SECTION A. LIMITATIONS AND MONITORING REQUIREMENTS

1. Final Effluent Limits – Outfall 001 - 7.8 MGD Design Flow

During the period beginning the effective date of the permit and lasting until the expiration date, unless otherwise noted, the permittee is authorized to discharge treated wastewater to Panther Branch, thence Spring Creek in Segment 1008 of the San Jacinto River Basin. Such discharges shall be limited and monitored by the permittee as specified below:

27		DISCHARGE LIMITATIONS	IMITATIONS		
EFFLUENT CHARACTERISTICS	STICS	mg/l unless noted	ss noted	MONITORING R	AONITORING REQUIREMENTS
	STORET			MEASUREMENT	
POLLUTANT	CODE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Ph, standard units (*1)	00400	6.0	9.0	Five Days/Week (*2)	Grab
Dissolved Oxygen (*1)	00300	4.0	N/A	Five Days/Week (*2)	Grab

			DI	DISCHARGE LIMITATIONS	IMITATIO	NS			
EFFLUENT CHARACTERISTICS	STICS	ibs/di	Ibs/day, unless noted	noted	mg/l	mg/l, unless noted	ted	MONITORING	MONITORING REQUIREMENTS
POLLUTANT	STORET	30-Day	7-Day	7-Day Daily Max	30-Day	7-Day	Daily	MEASUREMENT	SAMPLE
	CODE	Avg	Avg		Avg	Avg	Max	FREQUENCY	TYPE
Flow, MGD (*1)	50050	N/A	N/A	N/A	Report	Report	Report	Continuous	Totalizing Meter
Carbonaceous Biochemical	80082	651	976	N/A	10	15	N/A	Five Days/Week (*2)	24-Hr Composite (*3)
Oxygen Demand (5-day) (*1)									
Total Suspended Solids (*1)	00530	976	1627	N/A	15	25	N/A	Five Days/Week (*2)	24-Hr Composite (*3)
Ammonia Nitrogen	00610	195	391	N/A	ю	9	N/A	Five days/Week (*2)	24-Hr Composite (*3)
(Total As N) (*1)									
Total Residual Chlorine (*1)	50060	N/A	N/A	N/A	N/A	N/A	0.1	Daily	Instantaneous Grab (*4)
E. coli Bacteria (*5)	51040	N/A	N/A	N/A	Report	N/A	Report	Daily	Grab
E. coli Bacteria (*6)	51040	N/A	N/A	N/A	126 (*7)	N/A	394 (*7)	Daily	Grab
Copper, Total	01042	Report	N/A	Report	Report	N/A	Report	Once/Two Weeks	Grab
FFFI LIENT CHARACTERISTICS	STICS		DISCH	DISCHARGE MONITORING	TOPING		MONIT	MONITORING REOLITREMENTS	VTC
ELLECENT CUMMACIENCE	01100	and the second se	niociti	NION HOLL		ALC: NOT	INCINI	ONLY NEXCENTRAL	

SAMPLE TYPE 24-Hr Composite (*3)

MEASUREMENT FREQUENCY Once/Quarter

NUMINIM YAD-7

30-DAY AVG Report

Whole Effluent Toxicity Monitoring (7-Day NOEC) (See Part II, Section E) (*8)

Pimephales promelas

Report

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EFFLUENT CHARACTERISTICS	DISCHARGE	DISCHARGE MONITORING	MONITORING	MONITORING REQUIREMENTS
Whole Effluent Toxicity Monitoring			MEASUREMENT	
(7-Day NOEC) (See Part II, Section E) (*9)	30-DAY AVG	30-DAY AVG 7-DAY MINIMUM	FREQUENCY	SAMPLE TYPE
Ceriodaphnia dubia	Report	Report	Once/Ouarter	24-Hr Comnosite (*3)

EFFLUENT CHARACTERISTICS	DISCHARGE	DISCHARGE MONITORING	MONITORING	MONITORING REQUIREMENTS
Whole Effluent Toxicity Limit (PCS 22414)	30-DAY AVG	30-DAY AVG 7-DAY MINIMUM	MEASUREMENT	
(7-Day NOEC) (See Part II, Section E) (*10)	78%	78%	FREQUENCY	SAMPLE TYPE
Ceriodaphnia dubia	Report	Report	Once/Quarter	24-Hr Composite (*3)

Footnotes:

- *1 Existing permit limits.
- Five Days/Week means at least one sample each normal workday; Monday through Friday. The first sample of any day shall be at least sixteen (16) hours after the first daily sample of the previous day. 2
 - 24-hour composite sample consists of a minimum of 12 effluent portions collected at equal time intervals over the 24-hour period and combined proportional to flow or a sample collected at frequent intervals proportional to flow over the 24-hour period.
 - The chlorine residual shall be monitored daily by instantaneous grab sample. Regulations at 40 CFR Part 136 define "instantaneous grab" as analyzed within 15 minutes of collection. S
 - Requirements for E. coli bacteria are effective during the period beginning the effective date of the permit and lasting through one (1) day prior to three (3) months from the effective date of the permit.
 - Requirements for E. coli bacteria are effective during the period beginning three (3) months from the effective date of the permit and lasting through the expiration date of the permit. 9
 - *7 Colony forming units per 100 ml.
- Quarterly biomonitoring test results are due on or before April 20, July 20, October 20, and January 20 for biomonitoring conducted during the previous Monitoring and reporting requirements begin on the effective date of this permit. Measurement and reporting frequency shall be by calendar quarters. calendar quarter. See PART II, Whole Effluent Toxicity Testing Requirements for additional WET monitoring and reporting conditions. *
- Requirements for Whole Effluent Toxicity Monitoring are effective during the period beginning the effective date of the permit, and lasting through three (3) years after the permit effective date. Measurement and reporting frequency shall be by calendar quarters. Quarterly biomonitoring test results are due on or before April 20, July 20, October 20, and January 20 for biomonitoring conducted during the previous calendar quarter. *10 6*
- lasting through the expiration date of the permit. Measurement and reporting frequency shall be by calendar quarters. Quarterly biomonitoring test results are Requirements for Whole Effluent Toxicity Limits are effective during the period beginning three (3) years after the permit modification effective date, and due on or before April 20, July 20, October 20, and January 20 for biomonitoring conducted during the previous calendar quarter.

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Final Effluent Limits - Outfall 002 - 0.6 MGD Maximum Design Flow i,

to Panther Branch, thence to Spring Creek, in Segment 1008 of the San Jacinto River Basin. Such discharges shall be limited and monitored authorized to discharge treated wastewater to Lake "B", the upper portion of Harrison Lake, thence to a tributary of Panther Branch, thence During the period beginning the effective date of the permit and lasting until the expiration date, unless otherwise noted, the permittee is by the permittee as specified below:

		DISCHARGE LIMITATIONS	MITATIONS		
EFFLUENT CHARACTERISTICS	RISTICS	mg/l unless noted	s noted	MONITORING R	AONITORING REQUIREMENTS
	STORET			MEASUREMENT	
POLLUTANT	CODE	MINIMUM	MAXIMUM	FREQUENCY	SAMPLE TYPE
Ph, standard units (*1)	00400	6.0	0.0	Daily (*2)	Grab (*3)
Dissolved Oxygen	00300	6.0	N/A	Daily (*2)	Grab (*3)

			DI	DISCHARGE LIMITATIONS	IMITATIO	NS			
EFFLUENT CHARACTERISTICS	TICS	ibs/di	Ibs/day, unless noted	oted	/Bui	mg/l, unless noted	ted	MONITORING I	MONITORING REQUIREMENTS
POLLUTANT	STORET	30-Day	7-Day	7-Day Daily Max	3	7-Day	Daily	MEASUREMENT	SAMPLE
	CODE	Avg	Avg		Avg	Avg	Max	FREQUENCY	1 Y P E
Flow, MGD	50050	N/A	N/A	N/A	Report	Report	0.6 MGD	Continuous	Totalizing Meter
Carbonaceous Biochemical	80082	35	60	N/A	7	12	N/A	Daily (*2)	Grab (*3)
Oxygen Demand (5-day)									
Total Suspended Solids (*1)	00530	75	125	N/A	15	25	N/A	Daily (*2)	Grab (*3)
Total Residual Chlorine (*1)	50060	N/A	N/A	N/A	N/A	N/A	0.1	Daily (*2, *4)	Instantaneous Grab (*3, *4)
Ammonia Nitrogen (Total As N)	00610	10	25	N/A	2	5	N/A	Daily (*2)	Grab (*3)

Footnotes:

Existing permit limits. -

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When discharging. Samples from Outfall 001 may be used for compliance with Outfall 002 when Outfall 002 is discharging. The chlorine residual shall be monitored daily by instantaneous grab sample. Regulations at 40 CFR Part 136 define "instantaneous grab" as analyzed within

NARRATIVE LIMITATIONS

Discharges shall be such that the following narrative standards are maintained in the receiving waters.

The effluent shall contain no visible film of oil or globules of grease on the surface or coat the banks or bottoms of the watercourse.

Surface water shall be essentially free of floating debris and suspended solids that are conducive to producing adverse responses in aquatic organisms or putrescible sludge deposits or sediment layers which adversely affect benthic biota or any lawful uses.

Surface waters shall be essentially free of settleable solids conducive to changes in flow characteristics of stream channels or the untimely filling of surface water in the state.

Waste discharges shall not cause substantial and persistent changes from ambient conditions of turbidity or color.

There shall be no foaming or frothing of a persistent nature.

SAMPLING LOCATION

Samples taken in compliance with the monitoring requirements specified above shall be taken at the discharge from the final treatment unit prior to the receiving stream.

B. SCHEDULE OF COMPLIANCE

The permittee shall comply with the following schedule of activities for the attainment of Whole Effluent Toxicity.

- a. Determine exceedance cause(s);
- b. Develop control options, if needed;
- c. Evaluate and select control mechanisms;
- d. Implement corrective action; and
- e. Attain final effluent limitations no later than <u>three (3) years after the permit</u> effective date.

The permittee shall submit quarterly progress reports to EPA, in accordance with the following schedule. The requirement to submit quarterly progress reports shall expire <u>three (3) years after</u> the permit effective date. No later than three (3) years after the permit effective date or <u>15 days</u> after compliance has been achieved, whichever occurs first, the permittee shall submit a written final report to EPA, stating that compliance has been completed. If at any time during the compliance period the permittee determines that full compliance will not be met within the time

allowed, a separate report shall be sent to EPA and the State stating the explanation for this delay and proposed remedial actions.

PROGRESS REPORT DATES January 1 April 1 July 1 October 1

Send progress and final reports to the following address:

EPA: Compliance Assurance and Enforcement Division Water Enforcement Branch (6EN-W) U.S. EPA, Region 6 1445 Ross Avenue Dallas, TX 75202-2733

C. MONITORING AND REPORTING (MAJOR DISCHARGERS)

The permittee shall effectively monitor the operation and efficiency of all treatment and control facilities and the quantity and quality of the treated discharge.

Monitoring information shall be on Discharge Monitoring Report Form(s) EPA 3320-1 as specified in Part III.D.4 of this permit and shall be submitted <u>monthly</u>.

- 1. Reporting periods shall end on the last day of the month.
- 2. The first Discharge Monitoring Report(s) shall represent facility operations from the effective date of the permit through the last day of the <u>month</u>.
- 3. Thereafter, the permittee is required to submit regular monthly reports as described above postmarked no later than the <u>25th day</u> of the month following each reporting period. The annual sludge report required in Part IV of the permit is due on <u>September 1</u> of each year and covers the previous calendar year from August 1 through July 31.
- 4. If any 7-day average or daily maximum value exceeds the effluent limitations specified in Part I.A, the permittee shall report the excursion in accordance with the requirements of Part III.D.
- 5. Any 30-day average, 7-day average or daily maximum that is in excess of the effluent limitation specified in Part I A may constitute evidence of a violation of such effluent limitation and of this permit and must be reported in the required

Discharge Monitoring Report. The Discharge Monitoring Report may be used as evidence of such violation in an enforcement proceeding.

- 6. Other measurements of oxygen demand (e.g., TOC and COD) may be substituted for five-day Biochemical Oxygen Demand (BOD₅) or for five-day Carbonaceous Biochemical Oxygen Demand (CBOD₅), as applicable, where the permittee can demonstrate long-term correlation of the method with BOD₅ or CBOD₅ values, as applicable. Details of the correlation procedures used must be submitted and prior approval granted by the permitting authority for this procedure to be acceptable. Data reported must also include evidence to show that the proper correlation continues to exist after approval.
- 7. The permittee shall report all non-compliance overflows with the Discharge Monitoring Report submittal. These reports shall be summarized and reported in tabular format. The summaries shall include: the date, time, duration, location, estimated volume, and cause of the overflow; observed environmental impacts from the overflow; actions taken to address the overflow; and ultimate discharge location if not contained (e.g., storm sewer system, ditch, tributary).

Overflows that endanger health or the environment shall be orally reported to EPA at (214) 665-6595, within 24 hours from the time the permittee becomes aware of the circumstance. A written report of overflows that endanger health or the environment shall be provided to EPA within 5 days of the time the permittee becomes aware of the circumstance.

D. POLLUTION PREVENTION REQUIREMENTS

The permittee shall institute a program within <u>12 months</u> of the effective date of the permit (or continue an existing one) directed towards optimizing the efficiency and extending the useful life of the facility. The permittee shall consider the following items in the program:

- 1. The influent loadings, flow and design capacity;
- 2. The effluent quality and plant performance;
- 3. The age and expected life of the wastewater treatment facility's equipment;
- 4. Bypasses and overflows of the tributary sewerage system and treatment works;
- 5. New developments at the facility;
- 6. Operator certification and training plans and status;
- 7. The financial status of the facility;
- 8. Preventative maintenance programs and equipment conditions and;
- 9. An overall evaluation of conditions at the facility.

PART II - OTHER CONDITIONS

A. 24-HOUR ORAL REPORTING: EFFLUENT LIMITATION VIOLATIONS

Under the provisions of Part III.D.7 of this permit, violations of effluent limitations for the following pollutants shall be reported orally to EPA Region 6, Compliance and Assurance Division, Water Enforcement Branch (6EN-W), Dallas, Texas within <u>24 hours</u> from the time the permittee becomes aware of the violation followed by a written report in <u>five days</u>.

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B. PERMIT MODIFICATION AND REOPENER

In accordance with 40 CFR Part 122.44(d), the permit may be reopened and modified during the life of the permit if relevant portions of Texas's Surface Water Quality Standards or its Procedures to Implement the Texas Surface Water Quality Standards are revised, or new State Surface Water Quality Standards are established and/or remanded and/or if any revisions to applicable Total Maximum Daily Loads are completed.

In accordance with 40 CFR Part 122.62(s)(2), the permit may be reopened and modified if new information is received that was not available at the time of permit issuance that would have justified the application of different permit conditions at the time of permit issuance. Permit modifications shall reflect the results of any of these actions and shall follow regulations listed at 40 CFR Part 124.5.

C. CONTRIBUTING INDUSTRIES AND PRETREATMENT REQUIREMENTS

- 1. The following pollutants may not be introduced into the treatment facility:
 - (a) Pollutants which create a fire or explosion hazard in the publicly owned treatment works (POTW), including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
 - (b) Pollutants which will cause corrosive structural damage to the POTW, but in no case discharges with pH lower than 5.0, unless the works are specifically designed to accommodate such discharges;
 - (c) Solid or viscous pollutants in amounts which will cause obstruction to the flow in the POTW, resulting in Interference;

- (d) Any pollutant, including oxygen demanding pollutants (BOD, etc.), released in a discharge at a flow rate and/or pollutant concentration which will cause Interference with the POTW;
- (e) Heat in amounts which will inhibit biological activity in the POTW resulting in Interference, but in no case heat in such quantities that the temperature at the POTW treatment plant exceeds 40 degrees Centigrade (104 degrees Fahrenheit) unless the Approval Authority, upon request of the POTW, approves the alternate temperature limit;
- (f) Petroleum oil, non biodegradable cutting oil, or products of mineral origin in amounts that will cause interference or pass through;
- (g) 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; and
- (h) Any trucked or hauled pollutants, except at discharge points designated by the POTW.
- 2. The permittee shall require any indirect discharger to the treatment works to comply with the reporting requirements of Sections 204(b), 307, and 308 of the Act, including any requirements established under 40 CFR Part 403.
- 3. The permittee shall provide adequate notice of the following:
 - (a) Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Sections 301 and 306 of the Act if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into the treatment works.
 - (c) Any notice shall include information on (i) the quality and quantity of effluent to be introduced into the treatment works, and (ii) any anticipated impact of such change in the quality or quantity of effluent to be discharged from the publicly owned treatment works.

D. <u>WHOLE EFFLUENT TOXICITY MONITORING (7 DAY CHRONIC NOEC</u> FRESHWATER) Fathead Minnow (*Pimephales promelas*)

It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a

toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by EPA Region 6.

A copy of the full report for every WET test initiated (whether pass, fail, invalid, split sample, or terminated early for any reason) must be submitted to EPA within 30 days of completion of the test. In addition, for any test in which a significant difference from the test control (lethal or sublethal effects) is detected in the 25%, 33%, 44% and/or 59% effluent concentration(s), the permittee shall provide EPA written notice of the test results within ten days of test termination and prior to submitting the test results on the Discharge Monitoring Report for that reporting period. This notification should be submitted to:

Whole Effluent Toxicity Coordinator Mail Code 6WQ-P U.S. Environmental Protection Agency Region 6 1445 Ross Avenue Dallas, TX 75028

1. SCOPE AND METHODOLOGY

a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO FINAL OUTFALL(S):	001
REPORTED ON DMR AS FINAL OUTFALL:	TX1
CRITICAL DILUTION (%):	78%
EFFLUENT DILUTION SERIES (%):	0, 25, 33, 44, 59, 78, 100%
COMPOSITE SAMPLE TYPE:	Defined at PART I
TEST SPECIES/METHODS:	40 CFR Part 136

Pimephales promelas (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA 821 R 02 013, or the most recent update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test.

b. Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at the effluent critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at the critical dilution. c. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

2. PERSISTENT LETHAL and/or SUB-LETHAL EFFECTS

The requirements of this subsection apply only when a toxicity test demonstrates significant lethal and/or sub-lethal effects at the critical dilution. The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.

If any valid test demonstrates significant lethal or sub-lethal effects to a test species at the critical dilution, the frequency of testing for that species is automatically increased to once per quarter for the life of the permit.

a. Part I Testing Frequency Other Than Monthly

i. The permittee shall conduct a total of three (3) additional tests for any species that demonstrates significant toxic effects at the critical dilution. The additional tests shall be conducted monthly during the next three consecutive months. If testing on a quarterly basis, the permittee may substitute one of the additional tests in lieu of one routine toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in Item 4 of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.

ii. IF LETHAL EFFECTS HAVE BEEN DEMONSTRATED If any of the additional tests demonstrates significant lethal effects at the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of intermittent lethal effects at the critical dilution, or for failure to perform the required retests.

iii. IF ONLY SUB-LETHAL EFFECTS HAVE BEEN DEMONSTRATED If any two of the three additional tests demonstrates significant sub-lethal effects at 75% effluent or lower, the permittee shall initiate the Sub-Lethal Toxicity Reduction Evaluation (TRE_{SL}) requirements as specified in Item 5 of this section. The permittee shall notify EPA in writing within 5 days of the failure of any retest, and the Sub-Lethal Effects TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required for failure to perform the required retests.

iv. The provisions of Item 2.a.i. are suspended upon submittal of the TRE Action

Plan.

3. REQUIRED TOXICITY TESTING CONDITIONS

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

i. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.

ii. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.

iii. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for the growth and survival endpoints of the Fathead minnow test.

iv. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for the growth and survival endpoints of the Fathead minnow test.

v. A PMSD range of 12 - 30 for Fathead minnow growth.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

i. For the fathead minnow larval survival and growth tests, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the methods described in the "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition" EPA-821-R-02-013), or the most recent update thereof.

ii. The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The EPA manual, "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results. iii. The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is herein defined as a statistically significant difference at the 95% confidence level between the survival, reproduction, or growth of the test organism(s) in a specified effluent dilution compared to the survival, reproduction, or growth of the test organism(s) in the control (0% effluent).

iv. The use of NOECs and LOECs assumes either a monotonic (continuous) concentration response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced above and a full report will be submitted to EPA attached to the DMR for that reporting period.

v. Test results that demonstrate a non-monotonic (non-continuous) concentrationresponse relationship may be submitted, prior to the due date, for technical review. The abovereferenced guidance manual will be used when making a determination of test acceptability.

vi. EPA will review test results for consistency with established EPA regulations, policies, procedures, and permit requirements.

If the conditions of Test Acceptability are met in Item 3.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the survival test shall be considered to be a passing test, and the permittee may report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 4 below.

c. Dilution Water

i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for;

(A) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and

(B) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.

ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item 3.a), the permittee may substitute synthetic dilution

water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

(A) a synthetic dilution water control which fulfills the test acceptance requirements of Item 3.a was run concurrently with the receiving water control;

(B) the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);

(C) the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 4 below; and

(D) the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

d. Samples and Composites

i. The permittee shall collect a minimum of three flow-weighted composite samples from the outfall(s) listed at Item 1.a above.

ii. The permittee shall collect second and third composite samples for use during 24hour renewals of each dilution concentration for each test. The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.

iii. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first composite sample. Samples shall be chilled to 6 degrees Centigrade during collection, shipping, and/or storage.

iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 4 of this section.

4. REPORTING

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA/821/R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit a copy of each full report to EPA for every test initiated during the monitoring period, including any test which fails, is considered invalid or which is terminated early for any reason.

b. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit unless the permittee is performing a TRE which may increase the frequency of testing and reporting. Only ONE set of biomonitoring data for each species is to be recorded on the DMR for each reporting period. The data submitted should reflect the LOWEST lethal and sub-lethal effects results during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review.

c. The permittee shall submit the results of each valid toxicity test on the subsequent monthly DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR.

i. Pimephales promelas (Fathead Minnow)

(A) If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a '1'; otherwise, enter a '0' for Parameter No. TLP6C

(B) Report the NOEC value for survival, Parameter No. TOP6C

(C) Report the Lowest Observed Effect Concentration (LOEC) value for survival, Parameter No. TXP6C

(D) Report the NOEC value for growth, Parameter No. TPP6C

(E) Report the LOEC value for growth, Parameter No. TYP6C

(F) If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a '1'; otherwise, enter a '0' for Parameter No. TGP6C

(G) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C

d. Enter the following codes on the DMR for retests only:

(A) For retest number 1, Parameter 22415, enter a '1' if the NOEC for survival is less than the critical dilution; otherwise, enter a '0'

(B) For retest number 2, Parameter 22416, enter a '1' if the NOEC for survival is less than the critical dilution; otherwise, enter a '0'

5. TOXICITY REDUCTION EVALUATIONS (TREs) (Fathead Minnow only)

TREs for lethal and sub-lethal effects are performed in a very similar manner. EPA Region 6 is currently addressing TREs as follows: a sub-lethal TRE (TRE_{SL}) is triggered based on three sub-lethal test failures while a lethal effects TRE (TRE_L) is triggered based on only two test failures for lethality.

a. Within ninety (90) days of confirming persistent toxicity, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The goal of the TRE is to maximally reduce the toxic effects of effluent at the critical dilution and includes the following:

i. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, source evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures the permittee shall perform multiple characterizations and follow the procedures specified in the documents 'Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization of Chronically Toxic Effluents, Phase I' (EPA-600/6-91/005F), or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identification Evaluations, and Confirmations, the permittee shall perform multiple identification Evaluations, Phase II Toxicity Identification Procedures for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity' (EPA/600/R-92/080) and 'Methods for Aquatic Toxicity Identifications, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity' (EPA/600/R-92/081), as appropriate.

The documents referenced above may be obtained through the National Technical Information Service (NTIS) by phone at (703) 487-4650, or by writing:

U.S. Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, VA 22161

ii. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified;

Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct, concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 48 hours of test initiation, each composite sample shall be analyzed independently. Otherwise the permittee may substitute a composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis;

actions,	etc.);
	e actions,

and

etc.).

iv. Project Organization (e.g., project staff, project manager, consulting services,

b. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.

c. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July and October, containing information on toxicity reduction evaluation activities including:

i. any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;

ii. any studies/evaluations and results on the treatability of the facility's effluent toxicity; and

iii. any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant lethality at the critical dilution.

A copy of the TRE Activities Report shall also be submitted to the state agency.

d. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming lethality in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant lethality at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.

A copy of the Final Report on Toxicity Reduction Evaluation Activities shall also be submitted to the state agency.

e. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v).

6. MONITORING FREQUENCY REDUCTION

a. The permittee may apply for a testing frequency reduction upon the successful completion of the first four consecutive quarters of testing for the Fathead minnow test species, with no lethal or sub-lethal effects demonstrated at the critical dilution. If granted, the monitoring frequency may be reduced to not less than once per six months.

b. CERTIFICATION - The permittee must certify in writing that no test failures have occurred and that all tests meet all test acceptability criteria in item 3.a. above. In addition the permittee must provide a list with each test initiated including test initiation date, species, NOECs for lethal and sub-lethal effects and the maximum coefficient of variation for the controls. Upon review and acceptance of this information the agency will issue a letter of confirmation of the monitoring frequency reduction. A copy of the letter will be forwarded to the agency's Permit Compliance System section to update the permit reporting requirements.

c. SUB-LETHAL OR SURVIVAL FAILURES - If any test fails the survival or sublethal endpoint at any time during the life of this permit, three monthly retests are required and the monitoring frequency for the affected test species shall be increased to once per quarter until the permit is re-issued. Monthly retesting is not required if the permittee is performing a TRE.

Any monitoring frequency reduction granted applies only until the expiration date of this permit, at which time the monitoring frequency reverts to once per quarter until the permit is re-issued.

E. <u>WHOLE EFFLUENT TOXICITY LIMITS (7 DAY CHRONIC NOEC</u> <u>FRESHWATER</u>) Ceriodaphnia dubia

It is unlawful and a violation of this permit for a permittee or his designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed unless specific authority has been granted by EPA Region 6.

A copy of the full report for every WET test initiated (whether pass, fail, invalid, split sample, or terminated early for any reason) must be submitted to EPA within 30 days of completion of the test. In addition, for any test in which a significant difference from the test control (lethal or sublethal effects) is detected in the 25%, 33%, 44% and/or 59% effluent concentration(s), the permittee shall provide EPA written notice of the test results within ten days of test termination and prior to submitting the test results on the Discharge Monitoring Report for that reporting period. This notification should be submitted to:

Whole Effluent Toxicity Coordinator Mail Code 6WQ-P U.S. Environmental Protection Agency Region 6 1445 Ross Avenue Dallas, TX 75028

1. SCOPE AND METHODOLOGY

a. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO FINAL OUTFALL(S): 001

REPORTED ON DMR AS FINAL OUTFALL: TX1

CRITICAL DILUTION (%):	78
EFFLUENT DILUTION SERIES (%):	0, 25, 33, 44, 59, 78, 100%
COMPOSITE SAMPLE TYPE:	Defined at PART I
TEST SPECIES/METHODS:	40 CFR Part 136

Ceriodaphnia dubia chronic static renewal survival and reproduction test, Method 1002.0, EPA-821-R-02-013, or the most recent update thereof. This test should be terminated when 60% of the surviving females in the control produce three broods or at the end of eight days, whichever comes first.

b. Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at the critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at the critical dilution.

c. The conditions of this item are effective beginning with the effective date of the WET limit. When the testing frequency stated above is less than monthly and the effluent fails a test endpoint at the critical dilution, the permittee shall be considered in violation of this permit limit and the frequency for the affected species will increase to monthly until such time compliance with the No Observed Effect Concentration (NOEC) effluent limitation is demonstrated for a period of three consecutive months, at which time the permittee may return to the testing frequency stated in PART I of this permit. During the period the permittee is out of compliance, test results shall be reported on the DMR for that reporting period. The purpose of additional tests (also referred to as 'retests' or confirmation tests) is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.

d. This permit may be reopened to require chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

2. REQUIRED TOXICITY TESTING CONDITIONS

a. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

i. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.

ii. The mean number of *Ceriodaphnia dubia* neonates produced per surviving female in the control (0% effluent) must be 15 or more.

iii. 60% of the surviving control females must produce three broods.

iv. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the *Ceriodaphnia dubia* reproduction test.

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v. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, unless significant lethal or nonlethal effects are exhibited for: the young of surviving females in the *Ceriodaphnia dubia* reproduction test.

vi. A Percent Minimum Significant Difference (PMSD) range of 13 - 47 for *Ceriodaphnia dubia* reproduction.

Test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

b. Statistical Interpretation

i. For the water flea survival test, the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be Fisher's Exact Test as described in the "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition" (EPA-821-R-02-013), or the most recent update thereof.

ii. For the water flea reproduction test the statistical analyses used to determine if there is a significant difference between the control and an effluent dilution shall be in accordance with the methods described in the "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition" EPA-821-R-02-013), or the most recent update thereof.

iii. The permittee is responsible for reviewing test concentration-response relationships to ensure that calculated test-results are interpreted and reported correctly. The EPA manual, "Method Guidance and Recommendation for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136)" (EPA 821-B-00-004) provides guidance on determining the validity of test results.

iv. The NOEC is defined as the greatest effluent dilution at which no significant effect is demonstrated. The Lowest Observed Effect Concentration (LOEC) is defined as the lowest effluent dilution at which a significant effect is demonstrated. A significant effect is herein defined as a statistically significant difference at the 95% confidence level between the survival, reproduction, or growth of the test organism(s) in a specified effluent dilution compared to the survival, reproduction, or growth of the test organism(s) in the control (0% effluent).

v. The use of NOECs and LOECs assumes either a monotonic (continuous) concentration response relationship or a threshold model of the concentration-response relationship. For any test result that demonstrates a non-monotonic (non-continuous) response, the NOEC should be determined based on the guidance manual referenced above and a full report will be submitted to EPA attached to the DMR for that reporting period.

vi. Test results that demonstrate a non-monotonic (non-continuous) concentrationresponse relationship may be submitted, prior to the due date, for technical review. The abovereferenced guidance manual will be used when making a determination of test acceptability.

vii. EPA will review test results for consistency with established EPA regulations, policies, procedures, and permit requirements.

If the conditions of Test Acceptability are met in Item 2.a above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the survival test shall be considered to be a passing test, and the permittee may report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item 3 below.

c. Dilution Water

i. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water where the receiving stream is classified as intermittent or where the receiving stream has no flow due to zero flow conditions.

ii. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfil the test acceptance criteria of Item 2.a), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

(A) a synthetic dilution water control which fulfils the test acceptance requirements of Item 2.a was run concurrently with the receiving water control;

(B) the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);

(C) the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item 3.a below; and

(D) the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

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d. Samples and Composites

i. The permittee shall collect a minimum of three flow-weighted composite samples from the outfall(s) listed at Item 1.a above.

ii. The permittee shall collect second and third composite samples for use during 24hour renewals of each dilution concentration for each test. The permittee must collect the composite samples such that the effluent samples are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on an intermittent basis.

iii. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first composite sample. Samples shall be chilled to 6 degrees Centigrade during collection, shipping, and/or storage.

iv. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must collect an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item 3 of this section.

3. REPORTING

a. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA-821-R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.3 of this permit. The permittee shall submit a copy of each full report to EPA for every test initiated during the monitoring period, including any test which fails, is considered invalid or which is terminated early for any reason.

b. The permittee shall report the Whole Effluent Toxicity values for the 30-Day Average NOEC and the 7-Day Minimum NOEC under Parameter No. 22414 on the DMR for that reporting period in accordance with PART III.D.4 of this permit.

If more than one valid test for a species was performed during the reporting period, the test NOEC's may be averaged arithmetically and reported as the DAILY AVERAGE MINIMUM NOEC for that reporting period.

The permittee shall report the <u>LOWEST</u> 30-Day Average Minimum NOEC and the lowest 7-Day Minimum NOEC for Whole Effluent Toxicity.

A valid test must be reported on the DMR during each reporting period specified in PART I of this permit. Only <u>ONE</u> set of biomonitoring data for each species tested is to be recorded on the DMR for each reporting period. The data submitted should reflect the <u>LOWEST</u> lethal and sublethal effects results for each species during the reporting period. All invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for EPA review.

c. The permittee shall submit the results of the valid toxicity test on the DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Submit retest information clearly marked as such with the following month's DMR. Only results of valid tests are to be reported on the DMR.

i. <u>Ceriodaphnia dubia</u>

A. If the NOEC for toxicity is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP3B

B. Report the NOEC value for survival, Parameter No. TOP3B

C. Report the LOEC value for survival, Parameter No. TXP3B

D. Report the NOEC value for reproduction, Parameter No. TPP3B

E. Report the LOEC value for reproduction, Parameter No. TYP3B

F. If the No Observed Effect Concentration (NOEC) for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3B

G. Report the higher (critical dilution or control) Coefficient of Variation, Parameter No. TQP3B

F. MINIMUM QUANTIFICATION LEVEL (MQL)

If any individual analytical test result is less than the minimum quantification level listed below, a value of zero (0) may be used for that individual result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

Pollutant	MQL (ug/l)
Copper	0.5