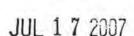


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6 1445 ROSS AVENUE DALLAS, TEXAS 75202-2733





EXHIBIT

CERTIFIED MAIL: RETURN RECEIPT REQUESTED (7004 1160 0003 0356 7715)

Mr. Edwin L. Wilmot, Manager National Nuclear Security Administrator Los Alamos Site Office Los Alamos, NM 87544

Re:

NPDES Permit No. NM0028355

Notice of Final Permit Decision

Dear Mr. Wilmot:

The permit recently issued to Los Alamos National Laboratory contains several typographical errors. Following regulations listed at 40CFR122.63(a), the following minor permit modifications are made:

- (1) Page 6 of Part I- The footnote (*7) is corrected to be (*6) for monitor of Daphnia pulex;
- (2) Page 11 of Part I- Total zinc is added into Footnote (*3) for report; and
- (3) Page 21 of Part I- Delete monitoring requirement for total zinc.

Per your request, following regulations listed at 40CFR122.63(c), the following compliance reporting requirements are modified:

- (1) Part I.B.(2)(a)- Add option of end-of-pipe treatment to PCB's compliance schedule; and
- (2) Part I.B.(3)- Change progress report date from 15th to 28th so that the report may be submitted with DMRs.

The following point source outfalls are deleted per your request, in accordance with regulations listed at 40CFR122.63(e)(2):

(1) Outfall 03A158.

The revised Part I with adjusted page numbers and page 14 of Part II are enclosed.

If you have any questions on any aspect of this minor permit modification, please feel free to contact the permit writer, Isaac Chen, by telephone at:214-665-7364, FAX:214-665-2191, or E-mail: chen.isaac@epa.gov.

. Sincerely yours,

Willie Lane

Chief

Permits & Technical Section (6WQ-PP)

Enclosure(s)

cc w/Enclosure:

New Mexico Environment Department

6EN-WC

PART I - REQUIREMENTS FOR NPDES PERMITS

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL 001

Discharge Type: Continuous Latitude 35°52'26"N, Longitude 106°19'09"W

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge Power Plant waste water from cooling towers, boiler blowdown drains, demineralizer backwash, R/O reject, floor and sink drains, and treated sanitary re-use to Sandia Canyon, in Segment Number 20.6.4.126 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORET COD	ES DISCH	ARGE LIMITAT	IONS/REPORTING	REQUIREMENT	S
	QUANTIT	Y/LOADING QI	JALITY/CONCENT		
	(LBS/DAY UN	LESS STATED)	(mg/L UNLI	ESS STATED)	
	MONTHLY AV	G DAILY MAX	MONTHLY AVG	DAILY MAX	
Flow	Report MGD	Report MGD	****	****	
STORET: 50050					
TSS	****	****	30	100	
STORET: 00530					
E. Coli (*1)	****	****	Report	Report	
STORET: 51040					
E. Coli (*1)	****	****	126 cfu/100 ml	410 cfu/100 ml	
STORET: 51040			****	3.2 2.20 02.0	
Total Residual Chlorine (*2)	****	****	****	0.011	
STORET: 50060				0.011	
Total Aluminum (*3)	****	****	Report	Report	
STORET: 01105			report	перы	
	****	****	0.050	0.007	
Total Aluminum (*3)	* 5550		0.058	0.087	
STORET: 01105			7.00		
pH (Standard Units) (*4)	R	langes from 6.0	to 9.0		
STORET: 00400					
pH (Standard Units) (*4)	F	Ranges from 6.6	to 8.8		
STORET: 00400					
Temperature (*5)	****	****	Report	Report	
STORET: 00010					
Temperature (*5)	****	****	24°C	24°C	
STORET: 00010					
M - W - MM I I W M M - M					

DAGE	2	OT	DA DO	*
PAGE	1	() H.	PART	- 1

PERMIT	NO.	MMO	02	B	35	5

Total PCBs (*6) STORET: 39516

Total PCBs (*6) STORET: 39516 0.009 ug/l

0.014 ug/l

0.00064 ug/l(*7)0.00064 ug/l(*7)

MONITORING REQUIREMENTS		
FREQUENCY OF ANALYSIS	SAMPLE TYPE	
Continuous	Totalizer Record	
1/Month	24-hr Composite	
1/Week	Grab	
I/Week	Grab	
1/Month	24-hr Composite	
1/Week	Grab	
1/Week	Grab	
1/Year	24-hr Composite	
	FREQUENCY OF ANALYSIS Continuous 1/Month 1/Week 1/Week 1/Month 1/Week	

WHOLE EFFLUENT TOXICITY TESTING

PARAMETERS/STORET CODES

DISCHARGE LIMITATIONS/REPORTING REQUIREMENTS QUALITY (PERCENT % UNLESS STATED)

MONTHLY AVG MINIMUM

7-DAY MINIMUM

Whole Effluent Toxicity Testing (*8)

(7-Day Static Renewal)

Pimephales promelas

Ceriodaphnia dubia

Report

Report

Report

Report

Species Quality Reporting Units: Pass = 0, Fail = 1

PARAMETERS/STORET CODES

MONITORING REQUIREMENTS

FREQUENCY OF SAMPLE ANALYSIS TYPE

Whole Effluent Toxicity Testing

(7-Day Static Renewal)

Pimephales promelas Ceriodaphnia dubia

1/Year 1/Year 24-Hr. Composite 24-Hr. Composite

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge from Outfall 001 (Latitude 35°52'26"N, Longitude 106°19'09"W).

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the NO DISCHARGE box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

- *1 Logarithmic mean. Effluent limitations and monitoring requirements only apply when effluent from Outfall 13S is rerouted and discharged at Outfall 001.

 The discharge shall meet the *E. coli* effluent limitations within six (6) months from the effective date of the permit.
- *2 Effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *3 During the period beginning the effective date of the permit and lasting through three (3) years from the effective date, the concentrations of total aluminum shall be reported in the DMRs. During the period beginning the three years from the effective date through the expiration date of the permit, the discharge must meet the effluent limitations.
- *4 During the period beginning the effective date of the permit and lasting through six (6) months from the effective date, the pH shall meet the range of 6.0 to 9.0. During the period beginning the six months from the effective date through the expiration date of the permit, the discharge shall meet the pH range of 6.6 to 8.8.

- *5 During the period beginning the effective date of the permit and lasting through three (3) years from the effective date, the Temperature shall be reported in the DMRs. During the period beginning the three years from the effective date through the expiration date of the permit, the discharge must meet the effluent limitations.
- *6 EPA published Method 1668 Revision A shall be used for total PCBs analysis.
- *7 See Part I.B.2. Compliance Schedule for PCBs.
- *8 The WET test should occur between November 1 and March 31 when most sensitive juvenile life forms are likely to be present in the receiving water and colder ambient temperatures might adversely affected treatment processes. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. See Part II, Section H. Whole Effluent Toxicity (7-Day Chronic Testing).

OUTFALL 13S

Discharge Type: Continuous Latitude 35°51'08"N, Longitude 106°16'33"W

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge treated sanitary waste water to Sandia Canyon in Segment Numbers 20.6.4.126 via outfalls utilizing treated effluent as specified in Outfall 001 and Category 03A, or to Canada del Buey in Segment Numbers 20.6.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

CHEMICAL/PHYSICAL/BIOCHEMICAL

PARAMETERS/STORET CODES	S DISCHARG	E LIMITATION	S/REPORTING REC	QUIREMENTS
	QUANTI	TY/LOADING	QUALITY/CONC	ENTRATION
(L	BS/DAY UNL	ESS STATED)	(mg/L UNLES	SS STATED)
MO	NTHLY AVG	DAILY MAX	MONTHLY AVG	DAILY MAX
Flow STORET: 50050	Report MGD	Report MGD	***	****
BOD5 (*1) STORET: 00310	75	112	30	45
BOD5 (*1) STORET: 00310	80	119	30	45
TSS (*1) STORET: 00530	75	112	30	45
TSS (*1) STORET: 00530	80	119	30	45
E. Coli (*2) STORET: 51040	****	****	Report	Report
E. Coli (*2) STORET: 51040	****	****	548 cfu/100 ml	2507 cfu/100 ml
Total Residual Chlorine (*3) STORET: 50060	****	****	***	0.011
pH (Standard Units) STORET: 00400	F	Ranges from 6.0	to 9.0	
Total PCBs (*4) STORET: 39516	****	****	0.009 ug/l	0.014 ug/I
Total PCBs (*4) STORET: 39516	****	****	0.00064 ug/l(*5)6	0.00064 ug/l(*5)

PARAMETERS/STORET CODES MONITORING REQUIREMENTS FREQUENCY OF SAMPLE ANALYSIS TYPE Flow Continuous Totalizer Record BOD5 1/Month 24-Hr Composite TSS 1/Month 24-Hr Composite E. Coli Bacteria 1/Month Grab Total Residual Chlorine 1/Week Grab pH (Standard Units) 1/Week Grab Total PCBs 1/Year 24-Hr Composite EFFLUENT CHARACTERISTIC DISCHARGE MONITORING 30-Day Avg Min. 48-Hr. Min. Whole Effluent Toxicity Testing (48 Hr. Static Renewal) Daphnia pulex Report Report EFFLUENT CHARACTERISTIC MONITORING REQUIREMENTS Frequency Type Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Daphnia pulex

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): at the Parshall Flume following the chlorine contact chamber (Latitude 35°51'08"N, Longitude 106°16'33"W) and prior to discharge to either Canada del Buey at Latitude 35°51'07"N, Longitude 106°16'27"W, or into the effluent reuse line to Sandia Canyon at Latitude 35°52'29"N, Longitude 106°18'38"W, or other outfalls utilizing treated effluent in the Outfall 001 and Category 03A.

1/2 Years (*6)

3-hr Composite

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

- *1 The monthly average and daily maximum loads of 75 and 112 lbs/day apply from the beginning the effective date of the permit and lasting until the average discharge rate has increased to 0.318 MGD through the addition of sanitary waste water from a residential subdivision located in Los Alamos County. LANL shall notify EPA Region 6 and NMED in writing two weeks prior to the addition of residential sanitary waste water to the TA-46 treatment plant. Mass loads of 80 and 119 lbs/day apply beginning the connection of sanitary waste water from a residential subdivision located in Los Alamos County lasting through the expiration date of the permit.
- *2 Logarithmic mean. Effluent limitations and monitoring requirements only apply when discharge is made directly to Canada del Buey. The discharge shall meet the *E. coli* effluent limitations within six (6) months from the effective date of the permit. The discharge shall comply with the monitoring requirement and effluent limitations for E. coli if it discharges at other outfall.
- *3 Effluent limitations and monitoring requirements only apply when discharge is made directly to Canada del Buey. The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *4 Effluent limitations and monitoring requirements only apply when discharge is made directly to Canada del Buey. EPA published Method 1668 Revision A shall be used. The permittee shall take efforts not to discharge PCBs contained effluent at Outfall 13S to Canada del Buey. PCBs contained effluent shall not be re-routed or reused, and/or discharged at other outfalls except Outfall 001. If the wastewater is discharge at other outfall, it shall comply with effluent limitations and monitoring requirements for PCBs.
- *5 See Part I.B.2. Compliance Schedule for PCBs.
- *6 When discharge is made directly to Canada del Buey. Take 1st sample in the 1st year of the permit and 2nd sample in the 3rd year of the permit. The WET test should occur between

November 1 and March 31. If discharges are not expected to occur during this sampling period, the test should be taken as soon as possible. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. Also see Part II, Section I. Whole Effluent Toxicity (48-hour Acute Testing).

OUTFALL 051 - Radioactive Liquid Waste Treatment Facility (TA-50) Discharge Type: Intermittent Latitude 35°51'54"N, Longitude 106°17'52"W

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge treated radioactive liquid waste to Mortandad Canyon in segment number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORE	T CODES	DISCHARGE	ELIMITATIONS	REPORTING REQ	UIREMENTS
		QUANTI	TY/LOADING	QUALITY/CONC	ENTRATION
	(LB	S/DAY UNL	ESS STATED)	(mg/L UNLES	SS STATED)
	MON	THLY AVG	DAILY MAX	MONTHLY AVG	DAILY MAX
Flow		Report	Report	***	****

		DIELES E TILL EL ELITO	CILLED E ILI	DIALLI E STAL ELE
Flow STORET: 50050	Report	Report	****	****
Chemical Oxygen Demand STORET: 00340	****	***	125	125
Total Suspended Solids STORET: 00530	****	***	30	45
Total Toxic Organics (*1) STORET: 78141	***	****	1.0	1.0
Ra 226+228 STORET: 11503	***	****	30 pCi/l	30 pCi/l
Total Chromium STORET: 01034	***	***	1.34	2.68
Total Lead STORET: 01051	****	****	0.423	0.524
Total Cadmium (*2) STORET: 01027	***	****	Report	Report
Total Mercury (*2) STORET: 71900	****	****	Report	Report
Total Nickel (*2) STORET: 01067	***	****	Report	Report

Total Copper (*3)	****	***	Report	Report
STORET: 01042				
Total Copper (*3) STORET: 01042	****	****	0.14 ug/l	0.2 ug/l
Total Zinc (*3)	****	****	Report	Report
STORET: 01092				
Total Zinc (*3)	****	****	2.2 ug/l	3.3 ug/l
STORET: 01092				
Total Residual Chlorine (*4)	****	****	****	0.011
STORET: 50060				
Total Selenium	****	****	Report	Report
STORET: 01147				
Perchlorate	****	***	Report	Report
STORET: 61209				
pH (Standard Units)	Rang	es from 6.0 to 9	.0	
STORET: 00400				
Total PCBs	****	****	Report	Report
STORET: 39516				

PARAMETERS/STORET CODES	MONITORING REQUIREMENTS		
	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
Flow	Continuous	Record	
Chemical Oxygen Demand	1/Month	Grab	
Total Suspended Solids	1/Month	Grab	
Total Toxic Organics	1/Month	Grab	
Tritium	1/Year	Grab	
Ra 226+228	1/Year	Grab	
Total Chromium	1/Year	Grab	
Total Lead	1/Year	Grab	
Total Cadmium	1/Year	Grab	
Total Mercury	1/Year	Grab	
Total Nickel	1/Year	Grab	
Total Copper	1/Month	Grab	
Total Zinc	1/Month	Grab	
Total Residual Chlorine	1/Week	Grab	
Total Selenium	1/Year	Grab	
Perchlorate	1/Year	Grab	
Total PCBs	1/Year	Grab	
pH (Standard Units)	1/Week	Grab	

EFFLUENT CHARACTERISTIC

DISCHARGE MONITORING 30-Day Avg Min. 48-Hr. Min.

Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

Daphnia pulex

Report

Report

EFFLUENT CHARACTERISTIC

MONITORING REQUIREMENTS

Frequency

Type

Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

Daphnia pulex

1/3 Months (*5)

3-hr Composite

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following the final treatment and prior to or at the point of discharge from TA-50-1 treatment plant (approximately at Latitude 35°51'54"N, Longitude 106°17'52"W)

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The limits and monitoring for Total Toxic Organics do not include 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), Pesticides, or Polychlorinated biphenyls
- *2 Annual sample shall be taken for five (5) years until the expiration date.
- *3 During the period beginning the effective date of the permit and lasting through three (3) years from the effective date, the concentration of total copper and total zinc shall the reported in the DMRs. During the period beginning the three years from the effective date through the expiration date of the permit, the discharge must meet the effluent limitations.
- *4 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *5 Sampling frequency 1/3 Months for the 1st year of the permit. If the test passes, reduce the frequency to 1/6 Months for year 2 through year 5 of the permit. If any test fails, return frequency to 1/3 Months for remainder of the permit. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. Also, see Part II, Section I. Whole Effluent Toxicity (48-hour Acute Testing).

STORET: 00400

OUTFALL 05A055 - High Explosives Waste Water Treatment Plant (TA-16-1508) Discharge Type: Intermittent Latitude 35°50'49"N, Longitude 106°19'51"W

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge treated waste water from the high explosives waste water treatment facility to a tributary to Canon de Valle in segment number 20.6.4.128 of the Rio Grande Basin

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORET CODESDISCHARGE LIMITATIONS/REPORTING REQUIREMENTS QUANTITY/LOADING QUALITY/CONCENTRATION (LBS/DAY UNLESS STATED) (mg/L UNLESS STATED) MONTHLY AVG DAILY MAXMONTHLY AVG DAILY MAX Report MGD Report MGD Flow STORET: 50050 Chemical Oxygen Demand 125 125 STORET: 00340 Total Suspended Solids 30 45 STORET: 00530 Oil and Grease 15 15 STORET: 00556 Total Toxic Organics (*1) 1.0 1.0 STORET: 78141 0.02 Trinitrotoluene Report STORET: 81360 0.20 0.66 Total RDX STORET: 81364 Perchlorate Report Report STORET: 61209 Ranges from 6.0 to 9.0 pH (Standard Units)

PARAMETERS/STORET CODES	MONITORING REQ	DUIREMENTS
*	FREQUENCY OF	SAMPLE
	ANALYSIS	TYPE
Flow	1/Day	Estimate
Chemical Oxygen Demand	1/Quarter	Grab

DEDMARK	ATO	MANAGOREE
PERMIT	NO.	NM0028355

Total Suspended Solids	1/Quarter	Grab
Oil and Grease	1/Quarter	Grab
Total Toxic Organics	1/Quarter	Grab
Trinitrotoluene	1/Quarter	Grab
Total RDX	2/Month (*2)	Grab
Perchlorate	1/Year	Grab
pH (Standard Units)	1/Week	Grab

EFFLUENT CHARACTERISTIC

DISCHARGE MONITORING
30-Day Avg Min. 48-Hr. Min.

Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

Daphnia pulex

Report

Report

EFFLUENT CHARACTERISTIC

MONITORING REQUIREMENTS

Frequency

Type

Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

Daphnia pulex

1/5 Years (*3)

3-hr Composite

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge (Latitude 35°50'49"N, Longitude 106°19'51"W).

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The limits and monitoring for Total Toxic Organics do not include 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD), Pesticides, or Polychlorinated biphenyls.
- *2 One sample should be taken before the 15th of the month and another taken after the 15th of the month.
- *3 The WET test should occur during the first period of November 1 to March 31 after the effective date of the permit. If no discharge occurs during this period, testing should be taken as soon as possible. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. See Part II, Section I. Whole Effluent Toxicity (48-hour Acute Testing).

OUTFALLS 03A021, 03A022, and 03A181

Discharge Type: Intermittent

Outfall 03A021: Latitude 35°52'14"N, Longitude 106°19'11"W (TA3-29) Outfall 03A022: Latitude 35°52'14"N, Longitude 106°19'01"W (TA3-2274) Outfall 03A181: Latitude 35°51'50.8"N, Longitude 106°18'05"W (TA55-6)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to Mortandad Canyon, in segment number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORET CODESDISCHARGE LIMITATIONS/REPORTING REQUIREMENTS OUT A DESTRUCTION OF THE PROPERTY ATTOMATION

QUANTITY/LOADING QUALITY/CONCENTRATION (LBS/DAY UNLESS STATED) (mg/L UNLESS STATED) MONTHLY AVG DAILY MAXMONTHLY AVG DAILY MAX Flow Report MGD Report MGD STORET: 50050 100 Total Suspended Solids 30 STORET: 00530 Total Residual Chlorine (*1) 0.011 STORET: 50060 Total Phosphorus 20 40 STORET: 00665 Total Copper (*2) Report Report STORET: 01042 Total Copper (*3) 0.019 0.028 STORET: 01042 Total Selenium Report Report STORET: 01147 pH (Standard Units) Ranges from 6.0 to 9.0 STORET: 00400

PARAMETERS/STORET CODES	MONITORING REQUIREMENTS		
	FREQUENCY OF	SAMPLE	
	ANALYSIS	TYPE	
Flow	1/Day	Estimate	
Total Suspended Solids	1/Quarter	Grab	
Total Residual Chlorine	1/Week	Grab	
Total Phosphorous	1/Quarter	Grab	
Total Copper (*4)	1/Month	Grab	

Total Selenium pH (Standard Units) 1/Year 1/Week

Grab Grab

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge.

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *2 Apply to Outfall 03A022 only. Effective beginning the effective date and lasting until three (3) years after the effective date.
- *3 Apply to Outfall 03A022 only. Effective beginning three (3) years after the effective date and lasting through the expiration date.
- *4 Apply to Outfall 03A022 only.

STORET: 00400

OUTFALLS 03A027, 03A113, and 03A199

Discharge Type: Intermittent

03A027: Latitude 35°52'26"N, Longitude 106°19'08"W (TA3-285 & 2327)

Outfall 03A113: Latitude 35°52'03"N, Longitude 106°15'43"W

(TA-53-293, 294, 952, 1032, & 1038)

Outfall 03A199: Latitude 35°52'33"N, Longitude 106°19'19"W (TA3-1837)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to Sandia Canyon, in segment number 20.6.4.126 (from Outfall 03A027 and 199) and 20.6.4.128 (from Outfall 03A113) of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORET CODESDISCHARGE LIMITATIONS/REPORTING REQUIREMENTS QUANTITY/LOADING QUALITY/CONCENTRATION

(LBS/DAY UNLESS STATED) (mg/L UNLESS STATED) MONTHLY AVG DAILY MAX MONTHLY AVG DAILY MAX Flow Report MGD Report MGD STORET: 50050 Total Suspended Solids 30 100 STORET: 00530 **** E. Coli (*1) Report Report STORET: 51040 548 cfu/100 ml 2507 cfu/100 ml E. Coli (*1) STORET: 51040 Total Residual Chlorine (*2) 0.011 STORET: 50060 Total Phosphorus 20 40 STORET: 00665 Total Copper (*3) Report Report STORET: 01042 pH (Standard Units) Ranges from 6.0 to 9.0 STORET: 00400 pH (Standard Units) (*4) Ranges from 6.6 to 8.8

PARAMETERS/STORET CODES	MONITORING REQUIREMENTS		
	FREQUENCY OF	SAMPLE	
	ANALYSIS	TYPE	
Flow	1/Day	Estimate	

Total Suspended Solids	1/Quarter	Grab
E. Coli	1/Week	Grab
Total Residual Chlorine	1/Week	Grab
Total Phosphorous	1/Quarter	Grab
Total Copper (*3)	1/Year	Grab
pH (Standard Units)	1/Week	Grab

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge.

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 Logarithmic mean. Effluent limitations and monitoring requirements only apply at Outfall 03A027 when effluent from Outfall 13S is rerouted and discharged at Outfall 03A027. (Effluent from Outfall 13S shall not be discharged at Outfall 03A027 if such effluent contains detectable PCBs.)

 The discharge shall meet the *E. coli* effluent limitations within six (6) months from the effective date of the permit.
- *2 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *3 Apply to Outfall 03A027 during the term of this permit period only.

*4 Apply at Putfalls 03A027 and 199. During the period beginning the effective date of the permit and lasting through six (6) months from the effective date, the pH shall meet the range of 6.0 to 9.0. During the period beginning the six months from the effective date through the expiration date of the permit, the discharge shall meet the pH range of 6.6 to 8.8.

STORET: 00400

OUTFALLS 03A130 and 03A185

Discharge Type: Intermittent
Outfall 03A130: Latitude 35°50'19"N, Longitude 106°19'33"W (TA11-30)
Outfall 03A185: Latitude 35°50'00"N, Longitude 106°18'40"W (TA15-625 & 626)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to Water Canyon, in segment number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

	QUANTI	TY/LOADING Q	UALITY/CONCI	ENTRATION
	(LBS/DAY UNL	ESS STATED)	(mg/L UNLES	SS STATED)
	MONTHLY AVG	DAILY MAXM	ONTHLY AVG	DAILY MAX
Flow STORET: 50050	Report MGD	Report MGD	***	****
Total Suspended Solids STORET: 00530	****	***	30	100
Total Residual Chlorine (* STORET: 50060	1) ****	***	***	0.011
Total Phosphorus STORET: 00665	***	****	20	40
Total Copper (*2) STORET: 01042	***	***	Report	Report
Total Copper (*3) STORET: 01042	***	****	0.025	0.037
Total Cyanide (*4) STORET: 00720	****	****	Report	Report
Total Cyanide (*5) STORET: 00720	****	****	3.5 ug/l	5.2 ug/l
Total Selenium STORET: 01147	***	***	Report	Report
oH (Standard Units)	R	langes from 6.0 to	9.0	

PARAMETERS/STORET CODES	MONITORING REQUIREMENTS		
	FREQUENCY OF	SAMPLE	
	ANALYSIS	TYPE	
Flow	1/Day	Estimate	
Total Suspended Solids	1/Quarter	Grab	
Total Residual Chlorine	1/Week	Grab	
Total Phosphorous	1/Quarter	Grab	
Total Copper	1/Month	Grab	
Total Cyanide	1/Month	Grab	
Total Selenium	1/Year	Grab	
pH (Standard Units)	1/Week	Grab	

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge.

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *2 Effective beginning the effective date and lasting until three (3) years from the effective date these requirements apply at Outfall 03A130 only.

- *3 Effective beginning three (3) years after the effective date and lasting through the expiration date these requirements apply at Outfall 03A130 only.
- *4 Effective beginning the effective date and lasting until three (3) years from the effective date.
- *5 Effective beginning three (3) years after the effective date and lasting through the expiration date.

OUTFALLS 03A048

Discharge Type: Intermittent

03A048: Latitude 35°52'11"N, Longitude 106°15'45"W (TA-53-964 & 979)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to Los Alamos Canyon, in segment number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

	QUANTI	TY/LOADING QU	UALITY/CONCI	ENTRATION
	(LBS/DAY UNL	ESS STATED)	(mg/L UNLES	SS STATED)
	MONTHLY AVG	DAILY MAXM	ONTHLY AVG	DAILY MAX
Flow	Report MGD	Report MGD	****	****
STORET: 50050		***	20	
Total Suspended Solids STORET: 00530	****	****	30	100
Total Residual Chlorine (* STORET: 50060	1) ****	****	***	0.011
Total Phosphorus STORET: 00665	***	***	20	40
Total Arsenic (*2) STORET: 01002	***	****	Report	Report
Total Arsenic (*3) STORET: 01002	***	****	0.01	0.014
Total Copper (*4) STORET: 01042	****	****	Report	Report
Total Copper (*5) STORET: 01042	****	****	0.021	0.031
pH (Standard Units) STORET: 00400	F	Ranges from 6.0 to	9.0	

PARAMETERS/STORET CODES	MONITORING REQUIREMENTS		
	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
Flow	1/Day	Estimate	
Total Suspended Solids	1/Quarter	Grab	
Total Residual Chlorine	1/Week	Grab	
Total Phosphorous	1/Quarter	Grab	
Total Arsenic	1/Month	Grab	
Total Copper	1/Month	Grab	
Total Cyanide	1/Month	Grab	
pH (Standard Units)	1/Week	Grab	
Tr - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge.

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *2 Effective beginning the effective date and lasting until three (3) years from the effective date.

- *3 Effective beginning three (3) years after the effective date and lasting through the expiration date.
- *4 Effective beginning the effective date and lasting until three (3) years from the effective date.
- *5 Effective beginning three (3) years after the effective date and lasting through the expiration.

0.022

0.032

STORET: 01042

STORET: 00400

OUTFALLS 03A160

Discharge Type: Intermittent

Outfall 03A160: Latitude 35°51'47"N, Longitude 106°17'49"W (TA35-124)

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to Ten Site Canyon, in segment number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORET CODESDISCHARGE LIMITATIONS/REPORTING REQUIREMENTS

QUANTITY/LOADING QUALITY/CONCENTRATION (LBS/DAY UNLESS STATED) (mg/L UNLESS STATED) MONTHLY AVG DAILY MAX MONTHLY AVG DAILY MAX Flow Report MGD Report MGD STORET: 50050 Total Suspended Solids 30 100 STORET: 00530 Total Residual Chlorine (*1) 0.011 STORET: 50060 Total Phosphorus 20 40 STORET: 00665 Total Copper (*2) Report Report

Total Copper (*3) **** ****

STORET: 01042
pH (Standard Units) Ranges from 6.0 to 9.0

PARAMETERS/STORET CODES	MONITORING REQUIREMENTS		
	FREQUENCY OF	SAMPLE	
	ANALYSIS	TYPE	
Flow	1/Day	Estimate	
Total Suspended Solids	1/Quarter	Grab	
Total Residual Chlorine	1/Week	Grab	
Total Phosphorous	1/Quarter	Grab	
Total Copper	1/Month	Grab	
pH (Standard Units)	1/Week	Grab	

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): following final treatment and prior to or at the point of discharge.

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *2 Effective beginning the effective date and lasting until three (3) years from the effective date.
- *3 Effective beginning three (3) years after the effective date and lasting through the expiration date.

OUTFALLS 03A021, 022, 048, 113, 130, 160, 181, and 185 Discharge Type: Intermittent

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to waters in segment number 20.6.4.128 of the Rio Grande Basin.

EFFLUENT CHARACTERISTIC

DISCHARGE MONITORING

30-Day Avg Min.

48-Hr. Min.

Whole Effluent Toxicity Testing (48 Hr. Static Renewal) (*1)

Daphnia pulex

Report

Report

EFFLUENT CHARACTERISTIC

MONITORING REQUIREMENTS

Frequency

Type

Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

Daphnia pulex

1/5 Years

3-hr Composite

(*1)The WET test should occur between November 1 and March 31 when most sensitive juvenile life forms are likely to be present in the receiving water and colder ambient temperatures might adversely affected treatment processes. If no discharge occurs or is expected during this period, the test shall occur as soon as possible.

Critical dilution of 100% (with a dilution series of 32%, 42%, 56%, 75%, and 100%) applies to Outfall(s) 03A021, 022, 048, 113, 130, 160, 181, and 185. Also see Part II. Section I. Whole Effluent Toxicity (48-Hr Acute Testing).

If the permittee certifies that discharges from the above outfalls have passed through similar operation and treatment and effluents are similar in nature, the testing result from one representative sample at Outfall 03A130 may be reported for all other outfalls. If Outfall 03A130 sample does not represent all 03A outfalls, the permittee may select additional representative outfalls for sampling.

OUTFALLS 03A027 Discharge Type: Intermittent

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to waters in segment number 20.6.4.126 of the Rio Grande Basin.

EFFLUENT CHARACTERISTIC

DISCHARGE MONITORING

30-Day Avg Min.

48-Hr. Min.

Whole Effluent Toxicity Testing (48 Hr. Static Renewal) (*1)

Daphnia pulex

Report

Report

Pimephales promelas

Report

Report

EFFLUENT CHARACTERISTIC

MONITORING REQUIREMENTS

Frequency

Type

Whole Effluent Toxicity Testing (48 Hr. Static Renewal)

Daphnia pulex

1/5 Years

3-hr Composite

Pimephales promelas

1/5 Years

3-hr Composite

(*1) Critical dilution of 80% (with a dilution series of 25%, 34%, 45%, 60%, and 80%) applies to Outfall 03A027. Also see Part II. Section I. Whole Effluent Toxicity (48-Hr Acute Testing).

The WET test should occur during the first period of November 1 to March 31 after the effective date of the permit. If no discharge occurs during this period, the test should occur as soon as possible.

OUTFALLS 03A199

Discharge Type: Intermittent

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge cooling tower blowdown and other wastewater to waters in segment number 20.6.4.126 of the Rio Grande Basin.

EFFLUENT CHARACTERISTIC

DISCHARGE MONITORING

30-Day Avg Min. 48-Hr. Min.

Whole Effluent Toxicity Testing (7-Day Static Renewal) (*1)

Ceriodaphnia dubia

Report

Report

Pimephales promelas

Report

Report

EFFLUENT CHARACTERISTIC

MONITORING REQUIREMENTS

Frequency

Type

Whole Effluent Toxicity Testing (7-Day Static Renewal)

> Ceriodaphnia dubia Pimephales promelas

1/5 Years

3-hr Composite

1/5 Years

3-hr Composite

Critical dilution of 35% (with a dilution series of 15%, 20%, 26%, 35%, and 47%) applies to Outfall 03A199. See Part II. Section H. Whole Effluent Toxicity (7-Day Chronic Testing).

The WET test shall occur during the first period of November 1 to March 31 after the effective date of the permit. If no discharge occurs during this period, the test should occur as soon as possible.

OUTFALL 02A129 (TA-21-357)

Discharge Type: Intermittent Latitude 35°52'32"N, Longitude 106°16'31"W

During the period beginning the effective date of the permit and lasting through the expiration date of the permit (unless otherwise noted),

the permittee is authorized to discharge boiler blowdown, water softener waste water, and once through cooling water to Los Alamos Canyon, in Segment Number 20.6.4.128 of the Rio Grande Basin.

Such discharges shall be limited and monitored by the permittee as specified below:

PARAMETERS/STORET CODESDISCHARGE LIMITATIONS/REPORTING REQUIREMENTS QUANTITY/LOADING QUALITY/CONCENTRATION (LBS/DAY UNLESS STATED) (mg/L UNLESS STATED)

MONTHLY AVG DAILY MAXMONTHLY AVG DAILY MAX Flow (MGD) Report Report STORET: 50050 **** Total Suspended Solids 30 100 STORET: 00530 0.011 Total Residual Chlorine (*1) STORET: 50060 Total Iron 10 40 STORET: 10145 **** 20 40 Total Phosphorus STORET: 00665 35 70 Sulfite (as SO₃) STORET: 00740 Total Copper (*2) Report Report STORET: 01042 1.6 ug/l 2.4 ug/l Total Copper (*2) STORET: 01042 Ranges from 6.0 to 9.0 pH (Standard Units) STORET: 00400

MONITORING REQUIREMENTS PARAMETERS/STORET CODES FREQUENCY OF SAMPLE ANALYSIS TYPE Flow 1/Day Estimate 1/Quarter Grab Total Suspended Solids Total Residual Chlorine 1/Week Grab Total Iron 1/Quarter Grab

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Total Phosphorous	1/Quarter	Grab
Sulfite (as SO ₃)	1/Quarter	Grab
Total Copper	1/Month	Grab
pH (Standard Units)	1/Week	Grab
EFFLUENT CHARACTERISTIC	DISCHARGE MO	NITORING
	30-Day Avg Min.	48-Hr. Min.
Whole Effluent Toxicity Testing (48 Hr. Static Renewal)		
Daphnia pulex	REPORT	REPORT
EFFLUENT CHARACTERISTIC	MONITORING REQUI	REMENTS
	Frequency	Type
Whole Effluent Toxicity Testing (48 Hr. Static Renewal)		
Daphnia pulex	1/5 Years (*3)	3-hr Composite

SAMPLING LOCATION(S) AND OTHER REQUIREMENTS

SAMPLING LOCATION(S)

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): Following final treatment and prior to or at the discharge point (Latitude 35°52'32"N, Longitude 106°16'31"W).

NO DISCHARGE REPORTING

If there is no discharge event at this outfall during the sampling month, place an "X" in the <u>NO DISCHARGE</u> box located in the upper right corner of the preprinted Discharge Monitoring Report.

FLOATING SOLIDS, OIL AND GREASE

There shall be no discharge of oils, scum, grease and other floating materials that would cause the formation of a visible sheen or visible deposits on the bottom or shoreline, or would damage or impair the normal growth, function or reproduction of human, animal, plant or aquatic life.

FLOW MEASUREMENTS

"Estimate" flow measurements shall not be subject to the accuracy provisions established at Part III.C.6. The daily flow value may be estimated using best engineering judgment.

- *1 The effluent limitation for TRC is the instantaneous maximum and cannot be averaged for reporting purposes.
- *2 During the period beginning the effective date of the permit and lasting through three (3) years from the effective date, the concentration of total copper shall be reported in the DMRs. During the period beginning the three years from the effective date through the expiration date of the permit, the discharge must meet the effluent limitations.
- *3 The WET test shall occur during the first period of November 1 to March 31 after the effective date of the permit. If no discharge occurs during this period, the test should occur as soon as possible. Critical dilution 100%, and the dilution series are 32%, 42%, 56%, 75%, 100%. See Part II, Section I. for 48-hour Acute WET Testing.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall comply with the following schedule of activities for the attainment of state water quality standards-based final effluent limitations for

Total Arsenic Outfall 03A048
Total Aluminum Outfall 001

Total Copper Outfalls 02A129, 03A022, 03A048, 03A130,

03A158, 03A160, and 051

Total Zinc Outfalls 051

Total Cyanide Outfalls 03A130 and 03A185

Temperature Outfall 001

 Determine exceedance cause(s) no later than twelve (12) months from the effective date of the permit;

 Develop control options no later than eighteen (18) months from the effective date of the permit; and

- Implement corrective action and attain final effluent limitations no later than three (3) years from the effective date of the permit.
- The permittee shall use Method 1668A beginning the effective date of the permit and comply with the following schedule of activities for the attainment of state water quality standards-based final effluent limitations for PCBs:
 - Identify all possible PCBs causes/sources or end-of-pipe treatment technologies no later eighteen (18) months from the effective date of the permit;
 - Develop the site specific MQL for PCBs for Method 1668A no later than twelve (12) months from the effective date of the permit;
 - c. Submit a source/cause remediation plan or treatment plan to EPA R6 NPDES Programs Branch (6WQ-P) for approval and send a copy to NMED SWQB no later than twenty-four (24) months from the effective date of the permit;
 - d. Start implementing corrective actions no later than six (6) months after EPA approves, in part or in whole, the source/cause remediation plan and schedules; and
 - e. Complete corrective actions and comply with final effluent limitations per EPA approved schedule or one (1) day before the expiration date of the permit, whichever comes first.
- The permittee shall submit quarterly progress reports in accordance with the following schedule. The requirement to submit quarterly progress reports shall expire when the discharge complies with final effluent limitations.

PROGRESS REPORT DATE
January 28, April 28, July 28, and October 28

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).

LWHOLE EFFLUENT TOXICITY TESTING (48-HOUR ACUTE NOEC FRESHWATER)

SCOPE AND METHODOLOGY

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

APPLICABLE TO FINAL OUTFALL(S): 13S, 051, 02A129, 05A055, 03A027, and 03A021, 022, 048, 113, 130, 160, 181 and 185.

REPORTED ON DMR AS FINAL OUTFALL: Same as above outfalls

CRITICAL DILUTION (%):

Defined at PART I.

EFFLUENT DILUTION SERIES (%):

Defined at PART I.

COMPOSITE SAMPLE TYPE:

Defined at PART 1

TEST SPECIES/METHODS:

Defined at PART I / 40 CFR Part 136

<u>Daphnia pulex</u> acute static renewal 48-hour definitive toxicity test using EPA/600/4-90/027F, or the latest 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.

<u>Pimephales promelas</u> (Fathead minnow) acute static renewal 48-hour definitive toxicity test using EPA/600/4-90/027F, or the latest 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.