REGION 6
DALLAS, TX 75270

January 17, 2025

TRANSMITTED VIA EMAIL

Mr. Arnie Castaneda
Water/Wastewater Director
City of Truth or Consequences
505 Sims Street
City of Truth or Consequences, NM 87901
acastaneda@torcnm.org

Re: Administrative Order; Docket Number: CWA-06-2025-1712
NPDES Permit Number: NM0020681

Dear Mr. Castaneda:

Enclosed is an Administrative Order (AO) issued to the City of Truth or Consequences for violations of the Clean Water Act (CWA) (33 U.S.C. § 1251 et seq.) involving its Wastewater Treatment Plant (WWTP). The violations are for failure to meet permit effluent limits, failure to submit required reports, and failure to properly maintain the WWTP.

This AO does not assess a monetary penalty; however, it does require compliance with applicable federal regulations. The first compliance deadline is within thirty days from the effective date of the AO. The Environmental Protection Agency Region 6 is committed to ensuring compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) program and my staff will assist you in any way possible. Please reference AO Docket Number CWA-06-2025-1712 and NPDES Permit Number NM0020681 on your response.

If you have any questions, please contact Ms. Rachel Matthews, of my staff, at (214) 665-8589 or at matthews.rachel@epa.gov.

Sincerely,

Cheryl T. Seager

Digitally signed by CHERYL SEAGER
Date: 2025.01.17 11:25:33 -06'00'

Cheryl T. Seager, Director
Enforcement and
Compliance Assurance Division

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6
FINDINGS OF VIOLATION AND COMPLIANCE ORDER
Docket Number: CWA-06-2025-1712; Permit Number: NM0020681

STATUTORY AUTHORITY

The following findings are made, and Order issued, under the authority vested in the Administrator of the United States Environmental Protection Agency (EPA), by Section 309(a) of the Clean Water Act (the Act), 33 U.S.C. § 1319(a). The Administrator of EPA has delegated the authority to issue this Order to the Regional Administrator of EPA Region 6, who has further delegated this authority to the Director of the Enforcement and Compliance Assurance Division.

FINDINGS

1. The City of Truth or Consequences (Respondent) is a "person," as that term is defined at Section 502(5) of the Act, 33 U.S.C. § 1362(5), and 40 C.F.R. § 122.2.

2. At all times relevant to this Order (all relevant times), Respondent owned or operated a wastewater treatment plant (facility) located at 1595 Animal Shelter Road, in the City of Truth or Consequences, Sierra County, New Mexico, and was, therefore, an "owner or operator" within the meaning of 40 C.F.R. § 122.2.

3. At all relevant times, the facility acted as a "point source" of a "discharge" of "pollutants" with its wastewater discharge to Rio Grande River in Segment 20.6.4.103 of the Middle Rio Grande Basin, which is a "water of the United States" within the meaning of Section 502 of the Act, 33 U.S.C. § 1362, and 40 C.F.R. § 122.2.

4. Because Respondent owned or operated a facility that acted as a point source of discharges of pollutants to waters of the United States, Respondent and the facility were subject to the Act and the National Pollutant Discharge Elimination System (NPDES) program.

5. Under Section 301 of the Act, 33 U.S.C. § 1311, it is unlawful for any person to discharge any pollutant from a point source to waters of the United States, except with the authorization of, and in compliance with, an NPDES permit issued pursuant to Section 402 of the Act, 33 U.S.C. § 1342.

6. Section 402(a) of the Act, 33 U.S.C. § 1342(a), provides that the Administrator of EPA may issue permits under the NPDES program for the discharge of pollutants from point sources to waters of the United States. Any such discharge is subject to the specific terms and conditions prescribed in the applicable permit.

7. Respondent applied for and was issued NPDES Permit No. NM0020681 (permit) under Section 402 of the Act, 33 U.S.C. § 1342, which became effective on April 1, 2022, with an expiration date of March 31, 2027. At all relevant times, Respondent was authorized to discharge pollutants from the facility to waters of the United States only in compliance with the specific terms and conditions of the permit.

8. Part I.A. of the permit places certain limitations on the quality and quantity of effluent discharged by Respondent. Those discharge limitations are specified in Appendix A, which is incorporated herein by reference.

9. The permit also includes "Monitoring and Reporting Requirements" that require Respondent to sample and test its effluent and monitor its compliance with permit conditions according to specific procedures, in order to determine the facility's compliance or noncompliance with the permit and applicable regulations.

10. The permit requires Respondent to file certified Discharge Monitoring Reports (DMRs) of the results of monitoring. DMRs filed by Respondent show discharges of pollutants from the facility that exceed the permitted effluent limitations established in the permit, as specified in Appendix B, which is incorporated herein by reference.

11. Part I.B. of the permit requires Respondent to comply with a Schedule of Compliance, for specified activities, to attain final effluent limitations of hexachlorobenzene. The schedule also includes the submittal of quarterly Progress Reports to EPA and the New Mexico Environment Department (NMED) on January 30, April 30, July 30, and October 30 that apply to the prior three-month period. To date, Respondent has not submitted any Progress Reports.

12. Pursuant to Part III.B. of the permit, Respondent is required to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by Respondent as efficiently as possible and in a manner which will minimize upsets and discharges of excessive pollutants and will achieve compliance with the conditions of the permit.

13. On January 12, 2023, an inspection of the facility was conducted by NMED inspectors, on behalf of EPA. The inspection report is incorporated as Appendix C.

Failure to comply with this Section 309(a)(3) Compliance Order or the Act may result in further administrative action, or a civil judicial action initiated by the United States Department of Justice.

This Order does not constitute a waiver or modification of the terms or conditions of Respondent's NPDES permit, which remain in full force and effect. Compliance with the terms and conditions of this Order does not relieve Respondent of its obligation to comply with any applicable federal, state, or local law or regulation.

The effective date of this Order is the date it is received by Respondent.

January 17, 2025

Date

Cheryl T Seager

Digitally signed by CHERYL SEAGER
Date: 2025.01.17 11:23:12 -06'00'

Cheryl T. Seager, Director
Enforcement and
Compliance Assurance Division

PART I – REQUIREMENTS FOR NPDES PERMITS

A. LIMITATIONS AND MONITORING REQUIREMENTS

1. OUTFALL 001 - FINAL Effluent Limits – 1.06 MGD Design Flow

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 domestic wastewater from Outfall 001 to Rio Grande River. Such discharges shall be limited and monitored by the permittee and reported as specified below:

POLLUTANT	DISCHARGE LIMITATIONS MINIMUM	DISCHARGE LIMITATIONS MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH	6.6 s.u.	9.0 s.u.	Daily	Instantaneous Grab (*3)
DO (*6)	6 mg/L	N/A	Weekly	Instantaneous Grab (*3)

POLLUTANT	30-DAY AVG, lbs/day, unless noted	7-DAY AVG lbs/day, unless noted	30-DAY AVG mg/l, unless noted (*1)	7-DAY AVG mg/l, unless noted (*1)	DAILY MAX mg/l, unless noted (*1)	MEASUREMENT FREQUENCY	SAMPLE TYPE
Flow	Report MGD	Report MGD	N/A	N/A	N/A	Daily	Totalized meter
BOD_5	176	265	20	30	N/A	Weekly	6-hr Composite
TSS	265	398	30	45	N/A	Weekly	6-hr Composite
BOD_5 % removal, minimum	≥85 (*2)	N/A	N/A	N/A	N/A	Monthly	Calculation
TSS % removal, minimum	≥85 (*2)	N/A	N/A	N/A	N/A	Monthly	Calculation
TRC	N/A	N/A	N/A	N/A	11 ug/l (*4)	Daily	Instantaneous Grab (*3)
E. coli bacteria	NA	N/A	548 cfu (or MPN)/100 ml (*5)	N/A	2,507 cfu (or MPN)/100 ml	Weekly	Grab
Hexachlorobenzene, interim limit (*7, *8)	5.48E-02	N/A	6.2 ug/l	N/A	NA	Weekly	Grab
Hexachlorobenzene, final limit (*8, *9)	5.43E-05	8.15E-05 daily max	6.14E-03 ug/l	N/A	9.21E-03 ug/l	3/Week	Grab
Cadmium, Total	0.01	0.02	1.55 ug/L	N/A	2.32 ug/L	3/Week	Grab
Acrylonitrile	0.1	0.15	11.65 ug/L	N/A	17.48 ug/L	Weekly	Grab
Total Phosphorus	N/A	N/A	N/A	N/A	Report	Quarterly	6-hr Composite
Total Nitrogen	N/A	N/A	N/A	N/A	Report	Quarterly	6-hr Composite

Appendix B

Administrative Order, Docket Number: CWA-06-2025-1712

Monitoring Period	Parameter	DMR Value	Sample Type	Frequency	Value	Statistical Base	Unit	Percent Exceedance
5/31/2023	Oxygen, dissolved [DO]	5.21	Grab	Weekly	6	MINIMUM	Milligrams per Liter	13
4/30/2023	Oxygen, dissolved [DO]	5.28	Grab	Weekly	6	MINIMUM	Milligrams per Liter	12
3/31/2023	Oxygen, dissolved [DO]	5.55	Grab	Weekly	6	MINIMUM	Milligrams per Liter	8
2/28/2023	Oxygen, dissolved [DO]	5.63	Grab	Weekly	6	MINIMUM	Milligrams per Liter	6
1/31/2023	Oxygen, dissolved [DO]	3.97	Grab	Weekly	6	MINIMUM	Milligrams per Liter	34
12/31/2022	BOD, 5-day, percent removal	74.7	Calculated	Monthly	85	MO AV MN	Percent	69
12/31/2022	Oxygen, dissolved [DO]	5.42	Grab	Weekly	6	MINIMUM	Milligrams per Liter	10
11/30/2022	BOD, 5-day, percent removal	78.5	Calculated	Monthly	85	MO AV MN	Percent	43
11/30/2022	Oxygen, dissolved [DO]	5.33	Grab	Weekly	6	MINIMUM	Milligrams per Liter	11
10/31/2022	Oxygen, dissolved [DO]	4.6	Grab	Weekly	6	MINIMUM	Milligrams per Liter	23
9/30/2022	Oxygen, dissolved [DO]	4.9	Grab	Weekly	6	MINIMUM	Milligrams per Liter	18
8/31/2022	E. coli	2192.3	Grab	Weekly	548	30DAVGEO	Colony Forming Units per 100ml	300
8/31/2022	Oxygen, dissolved [DO]	3.56	Grab	Weekly	6	MINIMUM	Milligrams per Liter	41
7/31/2022	BOD, 5-day, 20 deg. C	23	6 Hour Composite	Weekly	20	30DA AVG	Milligrams per Liter	15
7/31/2022	BOD, 5-day, percent removal	82	Calculated	Monthly	85	MO AV MN	Percent	20
7/31/2022	E. coli	582.6	Grab	Weekly	548	30DAVGEO	Colony Forming Units per 100ml	6
7/31/2022	Oxygen, dissolved [DO]	3.14	Grab	Weekly	6	MINIMUM	Milligrams per Liter	48
6/30/2022	Oxygen, dissolved [DO]	5.53	Grab	Weekly	6	MINIMUM	Milligrams per Liter	8
5/31/2022	Oxygen, dissolved [DO]	5.12	Grab	Weekly	6	MINIMUM	Milligrams per Liter	15
4/30/2022	Oxygen, dissolved [DO]	4.08	Grab	Weekly	6	MINIMUM	Milligrams per Liter	32
2/28/2022	Solids, suspended percent removal	80.6	Calculated	Weekly	85	MO AV MN	Percent	29

Original via Electronic Mail

February 09, 2023

Amanda Forrister, Mayor
City of Truth of Consequences
505 Sims Road
Truth or Consequences, NM 87901
amanda.forrister@torcnm.org

Re: Truth or Consequences Wastewater Treatment Plant; Major, Individual Permit; NAICS 22130; NPDES Compliance Evaluation Inspection; NPDES Permit NM0020681; January 12, 2023

Dear Amanda Forrister:

Enclosed please find a copy of the report and check list for the referenced inspection that the New Mexico Environment Department (NMED) conducted at your facility on behalf of the U.S. Environmental Protection Agency (USEPA). This inspection report will be sent to the USEPA in Dallas for their review. These inspections are used by USEPA to determine compliance with the National Pollutant Discharge Elimination System (NPDES) permitting program in accordance with requirements of the federal Clean Water Act.

Further explanations and problems noted during this inspection are discussed on the completed form and checklist of this inspection report. The introduction, treatment scheme, and items noted during this inspection are discussed in the "Further Explanations" section of the inspection report.

You are encouraged to review the inspection report, required to correct any problems noted during the inspection, and advised to modify your operational and/or administrative procedures, as appropriate. If you have comments on or concerns with the basis for the findings in the NMED inspection report, please contact us (see the address below) in writing within 30 days from the date of this letter. Further, you are encouraged to notify in writing both the USEPA and NMED regarding modifications and compliance schedules at the addresses below:

Rachel Matthews
NPDES Enforcement Coordinator
Environmental Protection Agency
Region 6 Water Enforcement Branch (6ECDWM)
1201 Elm Street, Suite 500
Dallas, Texas 75202
Matthews.Rachel@epa.gov

Susan LucasKamat
Program Manager
New Mexico Environment Department
Surface Water Quality Bureau (N2050)
Point Source Regulation Section
P.O. Box 5469
Santa Fe, New Mexico 87502
Susan.LucasKamat@env.nm.gov

Rachel Matthews (Matthews.Rachel@epa.gov or 214-) 665-8589) is USEPA Region 6's NPDES Enforcement Coordinator at the above address.

EPA

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

NPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspec. Type	Inspector	Fac Type
1 N 2 5 3	N M 0 0 2 0 6 8 1 11	12 2 3 0 1 1 2 17	18 C	19 S 20	1

Remarks: T R U T H O R C O N S E Q U E N C E E W W T P

Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved
67 1 69	70 3	71 N 72	N 73 74 75	80

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*	Entry Time /Date	Permit Effective Date
From Santa Fe, NM follow I-25 South to the Williamsburg Exit #75. Merge onto Broadway St. and head straight toward Radium St. Take a right at Radium St. and follow to the end of the road.	11:00AM / January 12, 2023	April 1, 2022
	Exit Time/Date 4:00PM / January 12, 2023	Permit Expiration Date March 31, 2027

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)	Other Facility Data
Pete English, Director of Water and Wastewater, 575-952-0566, (575)-894-0366 Jesus Navarro, Operator	Outfall Coordinates: 33.113611, -107.281667

Name, Address of Responsible Official/Title/Phone and Fax Number	Contacted
Amanda Forrister, Mayor City of Truth or Consequences 505 Sims St. Truth or Consequences, NM 87901 575-894-6673	Yes [ ] No [X]

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	S	Flow Measurement	M	Operations & Maintenance	N	CSO/SSO
S	Records/Reports	S	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	U	Compliance Schedules	N	Pretreatment	N	Multimedia
S	Effluent/Receiving Waters	M	Laboratory	N	Storm Water	N	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

1. **Please see attached documents.**

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Jason Martinez	NMED SWQB 505-372-8376	February 09, 2023
Signature of Management QA Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Susan A. LucasKamat	NMED SWQB 505-946-8924	February 09, 2023

Truth or Consequences Wastewater Treatment Plant	PERMIT NO. NM0020681

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?	☒ Y ☐ N ☐ NA
IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED?	☒ Y ☐ N ☐ NA
HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS?	☒ Y ☐ N ☐ NA
10.HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT?	☐ Y ☒ N ☐ NA
IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT?	☐ Y ☐ N ☒ NA

SECTION D - SELF-MONITORING

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED).*
DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT.	☒ Y ☐ N ☐ NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES.	☒ Y ☐ N ☐ NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT.	☒ Y ☐ N ☐ NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT.	☒ Y ☐ N ☐ NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT.	☒ Y ☐ N ☐ NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE.	☒ Y ☐ N ☐ NA
a) SAMPLES REFRIGERATED DURING COMPOSITING.	☒ Y ☐ N ☐ NA
b) PROPER PRESERVATION TECHNIQUES USED.	☒ Y ☐ N ☐ NA
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3.	☒ Y ☐ N ☐ NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT?	☐ Y ☐ N ☒ NA

SECTION E - FLOW MEASUREMENT

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. ☒ S ☐ M ☐ U ☐ NA *(FURTHER EXPLANATION ATTACHED).*
DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.	☒ Y ☐ N ☐ NA
TYPE OF DEVICE: Parshall Flume	
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.	☒ Y ☐ N ☐ NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.	☒ Y ☐ N ☐ NA
4. CALIBRATION FREQUENCY ADEQUATE.	☒ Y ☐ N ☐ NA
RECORDS MAINTAINED OF CALIBRATION PROCEDURES.	☐ Y ☒ N ☐ NA
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE.	☒ Y ☐ N ☐ NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.	☒ Y ☐ N ☐ NA
6. HEAD MEASURED AT PROPER LOCATION.	☒ Y ☐ N ☐ NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.	☒ Y ☐ N ☐ NA
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.	☒ Y ☐ N ☐ NA

Truth or Consequences Wastewater Treatment Plant	PERMIT NO. NM0020681

SECTION I - SAMPLING INSPECTION PROCEDURES ☐ S ☐ M ☐ U ☒ NA *(FURTHER EXPLANATION ATTACHED).*

1. SAMPLES OBTAINED THIS INSPECTION.	☐ Y ☐ N ☒ NA
2. TYPE OF SAMPLE OBTAINED GRAB: _____ COMPOSITE SAMPLE: _____ METHOD: _____ FREQUENC:_____	
3. SAMPLES PRESERVED.	☐ Y ☐ N ☒ NA
4. FLOW PROPORTIONED SAMPLES OBTAINED.	☐ Y ☐ N ☒ NA
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.	☐ Y ☐ N ☒ NA
6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE.	☐ Y ☐ N ☒ NA
7. SAMPLE SPLIT WITH PERMITTEE.	☐ Y ☐ N ☒ NA
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED.	☐ Y ☐ N ☒ NA
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT.	☐ Y ☐ N ☒ NA

holes, and gaps that should be repaired and fixed. The return activated sludge (RAS) is returned to the extended aeration racetrack near the grit chamber in a continuous process. The waste activated sludge (WAS) is sent to a belt press where a polymer is added (the polymer pump set-up was non-operational at the time of inspection). Sludge is then placed in the drying beds. Effluent then moves to a UV disinfection channel before discharge into the Rio Grande.

The facility uses an ultrasonic totalizing meter and has one (1) outfall. The effluent passes through a 9" Parshall Flume prior to discharge to the Rio Grande. Sample collection occurs at the Parshall Flume. There are rocks and rip-rap directly below the discharge point to prevent erosion and increase aeration. The effluent falls and cascades down the rocks. There was no wildlife or animals observed at or near the discharge point. Additionally, some of the effluent is diverted to a reuse pond for water reuse in the city parks.

Further Explanation

This section is arranged according to the format of the enclosed checklist (EPA Form 3560-3)

Section A- Permit Verification – Overall Rating of "Satisfactory"

Findings: The permit was renewed in 2022. The address provided for application is the mailing address for the facility, not the physical address. There is one (1) outfall as described in the associated permit and the location of the outfall was approximately 33° 06' 49.66", -107° 16' 54.64".

Section B- Recordkeeping and Reporting Evaluation – Overall Rating of "Marginal"

NPDES Permit NM0020681, Part I, Section B. Schedules of Compliance

B. SCHEDULES OF COMPLIANCE

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

Activity	***Months from permit effective date***
1. Determine exceedance causes, if applicable	*6*
2. Develop control options, if needed, evaluate and select control mechanisms	*12*
3. Construction of selected control mechanisms, if any	*24*
4. Attain final effluent limitations	*36 or less*

The permittee shall submit quarterly progress reports to EPA and NMED in accordance with the following schedule. The permittee shall also include the following in its quarterly progress reports: design completion, construction start and construction completion if any. The requirement to submit quarterly progress reports shall expire after written final report has been submitted. No later than 14 days after the date compliance with the final limits have been met, the permittee shall submit a written final report both to EPA and NMED, stating that compliance has been completed. If at any time during the compliance periods the permittee determines that full compliance will not be met within the time allowed, a separate report shall be sent to EPA stating the explanation for this delay and proposed remedial actions.

flow between the weirs and basin. Some of the weir bands had holes in them and were not level to support even distribution of overflowing water.

Section D- Self Monitoring – Overall Rating of "Satisfactory"

Findings: The permittee noted appropriate factors for sampling such as location, time, flowrate, etc.. There were no concerns noted on the facilities self-monitoring criteria.

Section E- Flow Measurement – Overall Rating of "Satisfactory"

NPDES Permit NM0020681, Part III, Section C Monitoring and Recording

6. *Flow Measurements*

> *Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to insure (sic) that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10% from true discharge rates throughout the range of expected discharge volumes.*

Findings: The ultrasonic flow meters were calibrated in 2022 but the effluent flow meter did not have documentation. It is recommended for the facility to follow up for the calibration record.

Section F- Laboratory – Overall Rating of "Marginal"

Findings: The facility performs dissolved oxygen (DO), total suspended solids (TSS), total residual chlorine (TRC), and E. coli sampling in-house. For E. coli the Colilert Quanti-tray method was utilized.

TRC would only be examined in the event chlorine was utilized for disinfection. The last TRC reported value was November 2022.

Thermometers need to be calibrated and a record of calibration maintained. Weighing scales had been calibrated and recorded.

The facility has been unable to meet dissolved oxygen (DO) permit limitations. The sample is collected at the Parshall Flume; NMED recommends the facility attempt to sample at the point the effluent meets the rip-rap to better capture the aeration achieved with the rip-rap prior to meeting with the Rio Grande.

Section G- Effluent/Receiving Waters Observation – Overall Rating of "Satisfactory"

Findings: The effluent had no observable foams, greases, oils, algae, or other noticeable items. There was no wildlife observed in the river or at the point of discharge.

NMED/SWQB Official Photograph Log Photo # 1		
Photographer: Google Maps	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Aerial view of facility from Google Maps		

NMED/SWQB Official Photograph Log Photo # 3		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Headworks		

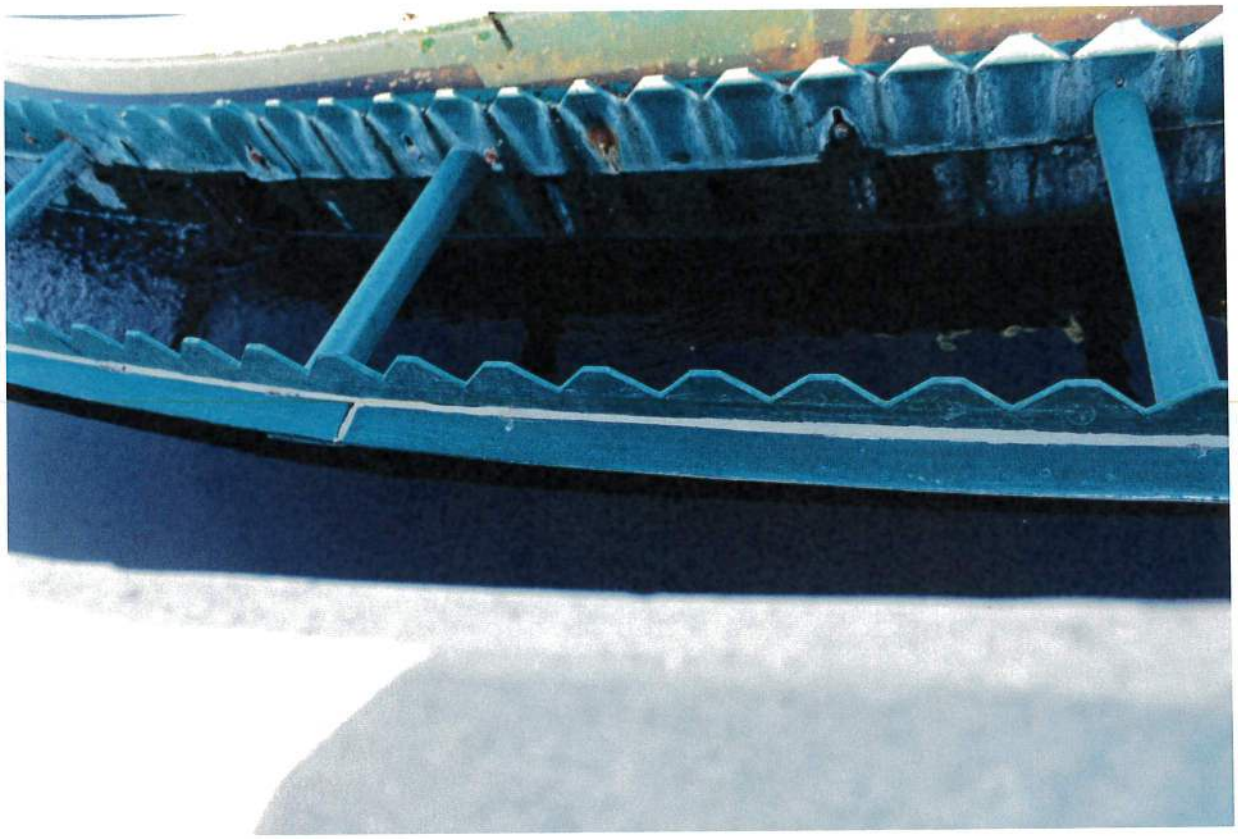
NMED/SWQB Official Photograph Log Photo # 5		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Point where septage may be accepted in the future. The location is adjacent the headworks lift station (slightly west of headworks)		

NMED/SWQB Official Photograph Log Photo # 7		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Extended aeration basin		

NMED/SWQB Official Photograph Log Photo # 9		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Old non-operational clarifiers		

NMED/SWQB Official Photograph Log Photo # 11		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Clarifier example		

NMED/SWQB Official Photograph Log Photo # 1		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Crack in weir plate (Center of photo) and overflow under the weir plate (left side)		



NMED/SWQB Official Photograph Log Photo # 13		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Foam overflow reservoir		

NMED/SWQB Official Photograph Log Photo # 15		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Aerated Basin		

NMED/SWQB Official Photograph Log Photo # 17		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Non-operational polymer pump for beltpress		

NMED/SWQB Official Photograph Log Photo # 19		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Effluent Parshall Flume and ultrasonic meter. It is noted there is some turbulence in the water flow.		

NMED/SWQB Official Photograph Log Photo # 21		
Photographer: Jason Martinez	Date: January 12, 2023	Time: Unknown
City/County: Truth or Consequences, NM/ Sierra County		State: New Mexico
Location: Truth or Consequences, NM near Williamsburg, NM		
Subject: Outfall 001		

Appendix B: Discharge Monitoring Reports 2022

DMR Summary

Permit NM0020681

Version # 0

Outfall 001A

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	Grab	Daily

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	MINIMUM	MAXIMUM
Limit Value	6.6	9
DMR Values		
4/30/22	7.1	7.44
5/31/22	7.15	7.61
6/30/22	7.2	7.54
7/31/22	7.24	7.55
8/31/22	7.16	7.59
9/30/22	7.18	7.56
10/31/22	7.06	7.6
11/30/22	6.94	7.79
12/31/22	Not Received	Not Received

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	6 Hour Composite	Weekly

Limit				
Limit Unit Desc	Pounds per Day	Pounds per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	30DA AVG	7 DA AVG	30DA AVG	7 DA AVG
Limit Value	265	398	30	45
DMR Values				
4/30/22	29.04	43.97	9.1	11.1
5/31/22	38.41	105	16.2	25.8
6/30/22	48.34	88.64	18.4	25.5
7/31/22	116.5	192.6	24.4	29.5
8/31/22	33.76	61.68	9	18.6
9/30/22	27.06	34.11	4.8	6.1
10/31/22	16.39	28.52	6.9	11.3
11/30/22	28.27	58.05	7.5	13.6
12/31/22	Not Received	Not Received	Not Received	Not Received

01027 Cadmium, total [as Cd] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	Grab	Three per Week

Limit				
Limit Unit Desc	Pounds per Day	Pounds per Day	Micrograms per Lite	Micrograms per Lite
Statistical Base	30DA AVG	7 DA AVG	30DA AVG	DAILY MX
Limit Value	.01	.02	1.55	2.32
DMR Values				
4/30/22	0	0	0	0
5/31/22	0	0	0	0
6/30/22	0	0	0	0
7/31/22	0	0	0	0

DMR Summary

Permit NM0020681

Version # 0

Outfall 001A

50050 Flow, in conduit or thru treatment plant / Location 1 / Season 0 / Base

Limit		
Limit Unit Desc	Million Gallons per	Million Gallons per
Statistical Base	30DA AVG	7 DA AVG
Limit Value		
DMR Values		
4/30/22	.422	.477
5/31/22	.343	.404
6/30/22	.453	.555
7/31/22	.497	.587
8/31/22	.473	.739
9/30/22	.407	.69
10/31/22	.44	.495
11/30/22	.499	.592
12/31/22	Not Received	Not Received

50060 Chlorine, total residual / Location A / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	Grab	Daily

Limit	
Limit Unit Desc	Micrograms per Lite
Statistical Base	INST MAX
Limit Value	11
DMR Values	
4/30/22	.04
5/31/22	.08
6/30/22	.03
7/31/22	0
8/31/22	0
9/30/22	.03
10/31/22	.23
11/30/22	.12
12/31/22	Not Received

51040 E. coli / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	Grab	Weekly

Limit		
Limit Unit Desc	Colony Forming Uni	Colony Forming Uni
Statistical Base	30DAVGEO	DAILY MX
Limit Value	548	2507
DMR Values		
4/30/22	10.2	19.9
5/31/22	27.3	33.3
6/30/22	29	98
7/31/22	582.6	2419
8/31/22	2192.3	2419.6
9/30/22	69.6	2419.6
10/31/22	25.1	121.2

DMR Summary

Permit NM0020681

Version # 0

Outfall 001Q

00600 Nitrogen, total [as N] / Location 1 / Season 0 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
6/30/22	8
9/30/22	11
12/31/22	Not Received

00665 Phosphorus, total [as P] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	6 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
6/30/22	6
9/30/22	3.6
12/31/22	Not Received

Outfall TX1Q

22415 Whole effluent toxicity - retest #1 / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	See Permit

Limit	
Limit Unit Desc	Pass=0; Fail=1
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	NODI=9
9/30/22	NODI=9
12/31/22	Not Received

22416 Whole effluent toxicity - retest #2 / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	See Permit

Limit	
Limit Unit Desc	Pass=0; Fail=1
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	NODI=9
9/30/22	NODI=9

DMR Summary

Permit NM0020681

Version # 0

Outfall TX1Q

51444 Whole Effluent Toxicity, Sub-Lethal Retest #3 / Location 1 / Season 0 / Base

Limit	
Limit Unit Desc	Pass=0; Fail=1
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	NODI=9
9/30/22	NODI=9
12/31/22	Not Received

TGP3B Pass/Fail Static Renewal 7 Day Chronic Ceriodaphnia / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Pass=0; Fail=1
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	0
9/30/22	0
12/31/22	Not Received

TGP6C Pass/Fail Statre 7Day Chronic Pimephales Promelas / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Pass=0; Fail=1
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	0
9/30/22	0
12/31/22	Not Received

TLP3B Low Flow Pass/Fail Survival Test Static Renewal 7 Day Chronic Ceriodaphnia dubia /

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Pass=0; Fail=1
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	0
9/30/22	0
12/31/22	Not Received

DMR Summary

Permit NM0020681

Version # 0

Outfall TX1Q

TPP3B NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceriodaphnia dubia / Location 1 / Sea

DMR Values	
9/30/22	51
12/31/22	Not Received

TPP6C NOEC Sub-Lethal Static Renewal 7 Day Chronic Pimephales promelas / Location 1 / S

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	51
9/30/22	51
12/31/22	Not Received

TQP3B Coef Of Var Statre 7Day Chronic Ceriodaphnia / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	13.3
9/30/22	8.6
12/31/22	Not Received

TQP6C Coef Of Var Statre 7Day Chronic Pimephales / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	VALUE
Limit Value	
DMR Values	
6/30/22	10.1
9/30/22	4.6
12/31/22	Not Received

TXP3B LOEC Lethal Survival Static Renewal 7 Day Chronic Ceriodaphnia dubia / Location 1 /

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
4/1/22	3/31/27	24 Hour Composite	Quarterly

DMR Summary

Permit NM0020681

Version # 4

Version # 4

Outfall 001A

00310 BOD, 5-day, 20 deg. C / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	6 Hour Composite	Weekly

Limit				
Limit Unit Desc	Pounds per Day	Pounds per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	30DA AVG	7 DA AVG	30DA AVG	7 DA AVG
Limit Value	265	398	30	45
DMR Values				
1/31/22	55.7	130.9	9	20
2/28/22	57.8	165.7	7.6	17
3/31/22	15.6	23.6	3.2	4.5

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	Grab	Daily

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	MINIMUM	MAXIMUM
Limit Value	6.6	9
DMR Values		
1/31/22	7.05	7.5
2/28/22	7.02	7.68
3/31/22	7.03	7.38

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	6 Hour Composite	Weekly

Limit				
Limit Unit Desc	Pounds per Day	Pounds per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	30DA AVG	7 DA AVG	30DA AVG	7 DA AVG
Limit Value	265	398	30	45
DMR Values				
1/31/22	61.1	145.34	9.7	22.2
2/28/22	142.32	309.06	21.8	31.7
3/31/22	41.25	66.11	8.3	10.8

01027 Cadmium, total [as Cd] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/19	9/30/21	Grab	Three per Week

DMR Summary

Permit NM0020681

Version # 4

Outfall 001A

51040 E. coli / Location 1 / Season 0 / Base

51040 E. coli / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	Grab	Weekly

Limit		
Limit Unit Desc	Colony Forming Uni	Colony Forming Uni
Statistical Base	30DAVGEO	DAILY MX
Limit Value	548	2507
DMR Values		
1/31/22	7.4	18.1
2/28/22	16.3	32.3
3/31/22	8.7	18.3

81010 BOD, 5-day, percent removal / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	Calculated	Weekly

Limit	
Limit Unit Desc	Percent
Statistical Base	MO AV MN
Limit Value	85
DMR Values	
1/31/22	95.5
2/28/22	91.2
3/31/22	98

81011 Solids, suspended percent removal / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	Calculated	Weekly

Limit	
Limit Unit Desc	Percent
Statistical Base	MO AV MN
Limit Value	85
DMR Values	
1/31/22	95.3
2/28/22	80.6
3/31/22	95.9

Outfall 001Q

00300 Oxygen, dissolved [DO] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	Grab	Quarterly

DMR Summary

Permit NM0020681

Version # 4

Outfall 001Q

39700 Hexachlorobenzene / Location 1 / Season 0 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
3/31/22	0

Outfall TX1Q

22415 Whole effluent toxicity - retest #1 / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	See Permit

Limit		
Limit Unit Desc	Pass=0; Fail=1	Pass=0; Fail=1
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	NODI=9	NODI=9

22416 Whole effluent toxicity - retest #2 / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	See Permit

Limit		
Limit Unit Desc	Pass=0; Fail=1	Pass=0; Fail=1
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	NODI=9	NODI=9

TGP3B Pass/Fail Static Renewal 7 Day Chronic Ceriodaphnia / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	Quarterly

Limit		
Limit Unit Desc	Pass=0; Fail=1	Pass=0; Fail=1
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	0	0

TGP6C Pass/Fail Statre 7Day Chronic Pimephales Promelas / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	Quarterly

DMR Summary

Permit NM0020681

Version # 4

Outfall TX1Q

TOP6C NOEC Lethal Static Renewal 7 Day Chronic Pimephales promelas / Location 1 / Seaso

Limit		
Limit Unit Desc	Percent	Percent
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	51	51

TPP3B NOEC Sub-Lethal Static Renewal 7 Day Chronic Ceriodaphnia dubia / Location 1 / Sea

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	Quarterly

Limit		
Limit Unit Desc	Percent	Percent
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	51	51

TPP6C NOEC Sub-Lethal Static Renewal 7 Day Chronic Pimephales promelas / Location 1 / S

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/19	9/30/21	24 Hour Composite	Quarterly

Limit		
Limit Unit Desc	Percent	Percent
Statistical Base	7 DA MIN	MO AV MN
Limit Value	38	38
DMR Values		
3/31/22	51	51

TQP3B Coef Of Var Statre 7Day Chronic Ceriodaphnia / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	Quarterly

Limit		
Limit Unit Desc	Percent	Percent
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	19.2	19.2

TQP6C Coef Of Var Statre 7Day Chronic Pimephales / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
10/1/16	9/30/21	24 Hour Composite	Quarterly

DMR Summary

Permit NM0020681

Version # 4

Outfall TX1Q

TYP6C LOEC Sub-Lethal Reproduction Static Renewal 7 Day Chronic Pimephales promelas /

Limit		
Limit Unit Desc	Percent	Percent
Statistical Base	7 DA MIN	MO AV MN
Limit Value		
DMR Values		
3/31/22	>51	>51