



SUSANA MARTINEZ  
Governor

JOHN A. SANCHEZ  
Lieutenant Governor

**NEW MEXICO  
ENVIRONMENT DEPARTMENT**

Harold Runnels Building  
1190 South St. Francis Drive (87505)  
P.O. Box 5469, Santa Fe, NM 87502-5469  
Phone (505) 827-0187 Fax (505) 827-0160  
www.env.nm.gov



BUTCH TONGATE  
Cabinet Secretary

J. C. BORREGO  
Acting Deputy Secretary

**Certified Mail – Return Receipt Requested**

October 28, 2016

Mayor Dale W. Janway  
City of Carlsbad  
P.O. Box 1569  
Carlsbad, NM 88221

**Re: City of Carlsbad Waste Water Treatment Plant; Major-Municipal; NPDES Compliance Evaluation; SIC 4952; NPDES Permit NM0026395; September 28, 2016**

Dear Mayor Janway:

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.

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:

NPDES Enforcement Coordinator  
Environmental Protection Agency, Region 6  
NPDES Enforcement Branch (6EN-WM)  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

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

David Long is USEPA Region 6's Acting NPDES Enforcement Coordinator at the above address.

Carlsbad WWTP  
October 28, 2016  
Page 2

If you have any questions about this inspection report, please contact Jennifer Foote at (505)827-0596 or at Jennifer.Foote@state.nm.us.

Sincerely,

*/s/ Sarah Holcomb*

Sarah Holcomb  
Acting Program Manager  
Point Source Regulation Section  
Surface Water Quality Bureau

cc: Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail  
David Long, USEPA (6EN-WM) by e-mail  
Brent Larsen, USEPA (6WQ-PP) by e-mail  
Gladys Gooden-Jackson, USEPA (6EN-WC) by e-mail  
Michael Kesler, NMED District III by e-mail  
Joe Harvey, City of Carlsbad, by e-mail  
Richard Aguilar, City of Carlsbad, by e-mail



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 6 3 9 5 11 12 1 6 0 9 2 8 17 18 C 19 S 20 1					
Remarks					
M A J O R W W T P					
Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved	
67 69	70 4	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)  CARLSBAD WWTP: From US 62- Hobbs Highway towards Hobbs, 2.5 miles SE of Carlsbad, right on county road 605 ( US Refinery Rd), then take next right on country Rd 606 (Blackfoot Rd), Eddy County, New Mexico 88221. Enter at first gate.	Entry Time /Date 1pm 9-28-16	Permit Effective Date January 1, 2014
	Exit Time/Date 10:30AM 9-29-16	Permit Expiration Date December 31, 2018
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) MR. JOE HARVEY, SUPERINTENDENT (575) 887-5412 MR. RICHARD AGUILAR, ENVIRONMENTAL SERVICES SUPERINTENDENT MR. JOE RAMIREZ/ SENIOR LAB TECHNICIAN/ (575) 887-5412 MR. MATT WARNER, OPERATOR	Other Facility Data  GPS: N. 32° 24' 28.12" W. -104° 10' 43.33" SIC: 4952	
Name, Address of Responsible Official/Title/Phone and Fax Number MAYOR DALE JANWAY, P.O. Box 1569, Carlsbad, NM 88221/ Mayor/(575) 887-1191 fax (575) 885-1101	Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

#### Section C: Areas Evaluated During Inspection (S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

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

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

See attached sheets.

Name(s) and Signature(s) of Inspector(s) Jennifer Foote /s/ Jennifer Foote	Agency/Office/Telephone/Fax NMED/SWQB 505-827-0596	Date 10/28/16
Signature of Management QA Reviewer Sarah Holcomb, Acting Program Manager /s/ Sarah Holcomb	Agency/Office/Phone and Fax Numbers NMED/SWQB 505-827-2798	Date 10/28/16

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS DETAILS:  S  M  U  NA (FURTHER EXPLANATION ATTACHED no )

- 1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE  Y  N  NA
- 2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES  Y  N  NA
- 3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT  Y  N  NA
- 4. ALL DISCHARGES ARE PERMITTED  Y  N  NA

SECTION B - RECORDKEEPING AND REPORTING EVALUATION

RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. DETAILS:  S  M  U  NA (FURTHER EXPLANATION ATTACHED yes )

- 1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.  Y  N  NA
- 2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.  S  M  U  NA
  - a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING  Y  N  NA
  - b) NAME OF INDIVIDUAL PERFORMING SAMPLING  Y  N  NA
  - c) ANALYTICAL METHODS AND TECHNIQUES.  Y  N  NA
  - d) RESULTS OF ANALYSES AND CALIBRATIONS.  Y  N  NA
  - e) DATES AND TIMES OF ANALYSES.  Y  N  NA
  - f) NAME OF PERSON(S) PERFORMING ANALYSES.  Y  N  NA
- 3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE. See Section F  S  M  U  NA
- 4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR  S  M  U  NA
- 5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.  Y  N  NA

SECTION C - OPERATIONS AND MAINTENANCE

TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED. DETAILS:  S  M  U  NA (FURTHER EXPLANATION ATTACHED yes )

- 1. TREATMENT UNITS PROPERLY OPERATED.  S  M  U  NA
- 2. TREATMENT UNITS PROPERLY MAINTAINED.  S  M  U  NA
- 3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.  S  M  U  NA
- 4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.  S  M  U  NA
- 5. ALL NEEDED TREATMENT UNITS IN SERVICE.  S  M  U  NA
- 6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.  S  M  U  NA
- 7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.  S  M  U  NA
- 8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.  Y  N  NA
- STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.  Y  N  NA
- PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED. Document was provided on 10/4/16  Y  N  NA

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 No)  
 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 yes)  
 DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.  Y  N  NA  
 TYPE OF DEVICE 18" 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  
Drexelbrook USonic-R by Ametek

4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION 12/8/15)  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

SECTION F - LABORATORY

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED Yes)  
 DETAILS:

1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)  Y  N  NA

**SECTION F - LABORATORY (CONT'D)**

- 2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED  Y  N  NA
- 3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT.  S  M  U  NA
- 4. QUALITY CONTROL PROCEDURES ADEQUATE.  S  M  U  NA
- 5. DUPLICATE SAMPLES ARE ANALYZED. 100 % OF THE TIME. pH  Y  N  NA
- 6. SPIKED SAMPLES ARE ANALYZED. 8 % OF THE TIME. **Discharge Monitoring Report-Quality Assurance (DMR-QA) study program**  Y  N  NA
- 7. COMMERCIAL LABORATORY USED.  Y  N  NA

LAB NAME BioAquatic Hall Environmental  
 LAB ADDRESS 2501 Mayes Rd Ste 100, Carrollton TX 75006 4901 Hawkins NE / Albuquerque, NM 87109  
 PARAMETERS PERFORMED WET Aluminum

**SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS.**  S  M  U  NA (FURTHER EXPLANATION ATTACHED NO )

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	none	none	none	none	none	clear	

RECEIVING WATER OBSERVATIONS: Observed at flume.

**SECTION H - SLUDGE DISPOSAL**

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS.  S  M  U  NA (FURTHER EXPLANATION ATTACHED NO )  
 DETAILS: Landfill and land application

- 1. SLUDGE MANAGEMENT ADEQUATE.  S  M  U  NA
- 2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503.  S  M  U  NA
- 3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: public contact site (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)

**SECTION I - SAMPLING INSPECTION PROCEDURES** (FURTHER EXPLANATION ATTACHED NO ).

- 1. SAMPLES OBTAINED THIS INSPECTION.  Y  N  NA
- 2. TYPE OF SAMPLE OBTAINED  
 GRAB \_\_\_\_\_ COMPOSITE SAMPLE \_\_\_\_\_ METHOD \_\_\_\_\_ FREQUENCY \_\_\_\_\_
- 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

**Compliance Evaluation Inspection**  
**Carlsbad Wastewater Treatment Plant NPDES Permit No. NM0026395**  
**Inspection Date: September 28, 2016**  
**Further Explanations**

**INTRODUCTION:**

On September 28, 2016, Jennifer Foote and Erin Trujillo of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Carlsbad Wastewater Treatment Plant (WWTP). This facility is classified as a major municipal under the federal Clean Water Act (CWA), Section 402 National Pollutant Discharge Elimination System (NPDES) permit program and is assigned permit number NM0026395. The present permit lists the plant as having a 5.0 MGD design flow, however the permit does not require the facility to develop a full pretreatment program.

This facility discharges to the Pecos River in Segment 20.6.4.202 (State of New Mexico Standards for Interstate and Intrastate Surface Waters, 20.6.4 New Mexico Administrative Code (NMAC)) of the Pecos River Basin. This segment has designated uses of industrial water supply, irrigation, livestock watering, wildlife habitat, primary contact and warmwater aquatic life. There are no listed impairments for the Assessment Unit for Pecos River (Six Mile Dam Lake to Lower Tansil Lake).

The NMED performs a certain number of inspections for the U.S. Environmental Protection Agency (USEPA), Region VI, under the NPDES permit program, in accordance with the federal Clean Water Act. USEPA uses these inspections to determine compliance with the NPDES permit program. This inspection report is based on information provided by the permittee's representatives, observations made by NMED staff, and records and reports kept by the permittee and/or NMED.

**INSPECTION DETAILS:**

Upon arrival at the facility, the inspectors made introductions, stated the purpose of the inspections and Ms. Trujillo presented credentials to Mr. Joe Harvey, Wastewater & Collections Superintendent. Ms. Trujillo conducted an MSGP inspection concurrently with this inspection. The Inspectors and Mr. Harvey toured the facility and the next day an exit interview was conducted at the WWTP office with Mr. Matt Warner and Mr. Richard Aguilar to discuss preliminary findings. The inspectors also met with Mr. Wes Nichols to discuss the collections systems.

**TREATMENT SCHEME:**

There are approximately 21 lift stations within the entire collection system. All raw sewage from the City is lifted by the primary lift station located on the west side of the Pecos River to the WWTP located on the east side of the Pecos River. The primary lift station is at the City's former WWTP, it has two lift pumps and automatic backup power, an alarm and callout system. Fifty two manholes and the lift station were rehabbed and additional funding will be requested to upgrade additional manholes and lift stations. The upgrades have significantly cut down on backups and inflow in the collection system.

The WWTP itself also has telemetry and a callout system in the event of an emergency. The facility is staffed 7 days a week with certified operators. The plant was upgraded a few years ago and is currently undergoing an expansion of the reuse storage system. The WWTP headworks consist of an automatic bar screen, fine screen compactor and aerated grit chamber. There is also an automatic overflow bypass. The flow travels from the headworks to a splitter box, then to either of two primary clarifiers which are run in parallel. Grit and screenings are hauled to the landfill. The flow is divided between the two primary clarifiers, then re-combines and is treated in four aeration basins, which are also run in parallel. The basins have both anoxic and aeration zones for nitrogen removal. From the aeration basin, the wastewater flows into two secondary clarifiers. After solids are dropped out in the two secondary clarifiers effluent flows through a dual bank UV system for final disinfection. Some flow is stored for reuse on the city golf course and other facilities. The effluent flow is measured using an 18-inch Parshall flume with a secondary Drexelbrook flow totalizing meter. The final effluent is discharged to the Pecos River through an effluent pipeline above the river.

**SLUDGE:**

The sludge from the two primary clarifiers is pumped to the primary sludge digesters for anaerobic treatment. The Return Activated Sludge (RAS) from the secondary clarifiers is pumped to the head of the activated sludge basins. When wasting is necessary, the Waste Activated Sludge (WAS) can be directed to the belt thickener, or can be pumped back to the entrance works for resettling in the primary clarifiers. A polymer is added prior to the belt thickener for enhanced dewatering. The digester is heated by burning gas collected during primary digestion.

The facility has solid bottom sludge beds with drains for decanting liquid. The decant water from the sludge beds is pumped back to the head of the WWTP, along with the decant water from the belt press. The sludge on the solids beds is mixed and turned to enhance drying using equipment for turning compost solids. It is then stockpiled and composted to meet Class A pathogen reduction requirements. The composted sludge is used on City properties and given away to the public.

**Septage Receiving**

Septage and domestic wastewater sources are received at a facility that is housed next to the sludge beds and is equipped with a bar screen and large solids removal. Greywater sources (primarily shower water, etc.) from oil and gas maintenance facilities in the area is dumped into a converted sludge bed, and then bled into the WWTP gradually. The facility has implemented a registered haulers program. Staff also monitor incoming trucks for pH and grease to determine compatibility with the WWTP.

**Section B – Recordkeeping and Reporting Evaluation – Overall Rating of “Satisfactory”**

The NPDES permit states in Part I.A.1.Table 1 for Effluent limits:

Footnote:

\*5 Colony forming units (cfu) per 100 ml.

\*8 Chlorine shall be monitored when used for disinfection and/or when used in any treatment process at the facility.

**Comments for Recordkeeping and Reporting:**

- The facility does not use or test for chlorine, and reports a 0 value in NetDMR. It is suggested that the permittee add a comment on the DMR that chlorine is not used or monitored, to clarify that the reported number of 0 is not a test result value.
- The permittee is using the EPA approved analytical method for E. coli bacteria analysis, IDEXX Quanti-Tray2000. Samples analyzed with this method are a statistical value of Most Probable Number (MPN) per 100 ml of water or MPN/100ml. It is suggested that the permittee include a comment in the explanations section of the DMR to explain that the test method results are measured in MPN. The permittee could also request a minor permit modification from EPA to include the MPN units in the permit.

**Section C– Operations and Maintenance – Overall Rating of “Satisfactory”**

**Comments for Operations and Maintenance:**

The emergency procedures were not available at the time of the inspection but were provided after the inspection. The facility has written SOP’s and stated that they plan to revise them now that the facility upgrades are complete.

**Section E – Flow Measurement – Overall rating of “Marginal”**

The permit requires, in Part III.C.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 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 for Flow Measurement:**

The daily effluent flow meter readings and daily calibration checks as recorded from chart #1C (see attachment) for the week of Sept 26, 2016 to Oct 2, 2016 and the calculated percent deviation from the discharge rate:

	M	Tu	W	Th
Flow digital reading	2.24	2.53	0.04	0.59
Parshall MGD	1.68	2.06	0.45	0.59
<b>% deviation of flow meter from parshall flume measurement (deviation+true discharge rate)</b>	<b>33%</b>	<b>23%</b>	<b>91%</b>	<b>0%</b>

- The flow meter must be recalibrated if there is 10% or greater deviation. The calibration log indicates the meter has not been calibrated since December 8, 2015.

## **Section F – Laboratory – Overall Rating of “Satisfactory”**

The permit requires, in Part III.C.4

*Records of monitoring information shall include:*

*c. The analytical techniques or methods used;*

The permit requires, in Part III.C.5.b:

*The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instruments at intervals frequent enough to insure accuracy of measurements and shall maintain appropriate records of such activities.*

The permit requires, in Part III.D.5:

*If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report (DMR). Such increased monitoring frequency shall also be indicated on the DMR.*

### **Findings for Laboratory:**

- The laboratory SOPs include dechlorination as part of the procedure. SOPs should be updated to include current methods used.
- There are no thermometers in the refrigerated samplers. In the laboratory, the incubators and refrigerators temperatures are checked and logged daily. The thermometer NIST certifications are expired. EPA recommends that calibrations be performed yearly by an outside representative to ensure the best possible laboratory data.
- The permittee is performing duplicate pH readings and using the second reading for monthly reporting purposes. The permittee should use all readings from the benchsheet for monthly high & low pH determinations.

NMED/SWQB  
Official Photograph Log  
Photo # 1

Photographer: E. Trujillo	Date: 9/28/16	Time: 15:55
City/County: Carlsbad/Eddy Co.	State: New Mexico	
Location: Carlsbad WWTP		
Subject: Secondary clarifier weir with build-up, permittee stated it was cleaned on Fridays.		



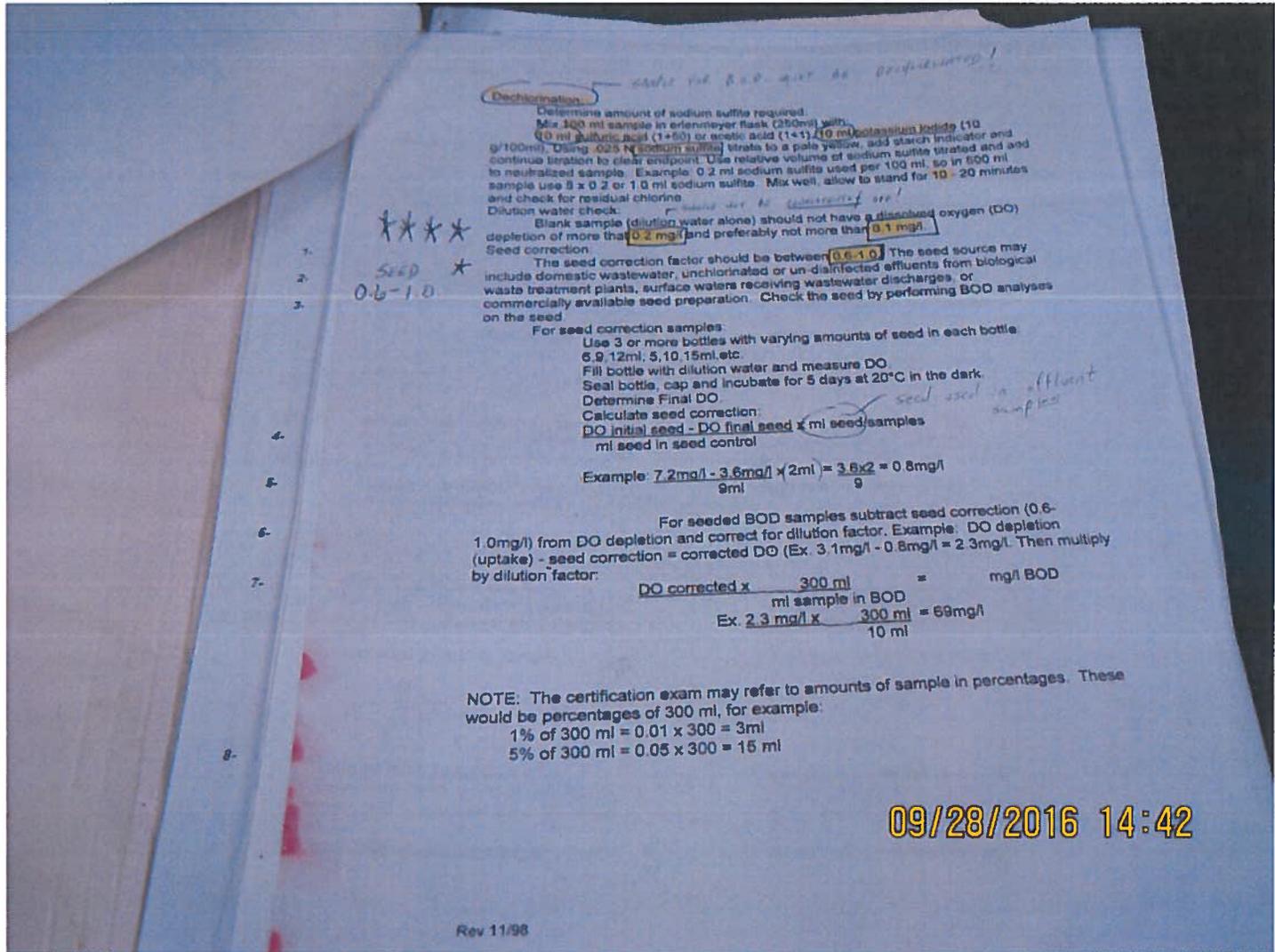
NMED/SWQB  
Official Photograph Log  
Photo # 2

Photographer: J.Foote	Date: 9/28/16	Time: 15:09 (camera time is off by 12 hours)
City/County: Carlsbad/Eddy Co.	State: New Mexico	
Location: Carlsbad WWTP		
Subject: Influent sample collector without thermometer		



**NMED/SWQB  
Official Photograph Log  
Photo # 3**

Photographer: E. Trujillo	Date: 9/28/16	Time: 14:42
City/County: Carlsbad/Eddy Co.	State: New Mexico	
Location: Carlsbad WWTP		
Subject: dechlorination procedure		



**Attachments:**

- Daily log for week of Sept 26, 2016-Oct 2, 2016 for Effluent Meter
- Effluent Meter Calibration Log

# DAILY SOUND / VISUAL INSPECTION SHEET

DATE: Sept. 26/16 TO Oct. 2-16

CHART #1C

EFFLUENT METER:		Initials	<u>DM</u>	<u>FO.</u>	<u>A.L.</u>	<u>GP</u>			
		M	T	W	T	F	S	S	
	Time:	<u>0745</u>	<u>07:47</u>	<u>6:45</u>	<u>0710</u>				
Parshall Flume:	Flow Digital Reading	<u>2.24</u>	<u>2.53</u>	<u>.040</u>	<u>.59</u>				
	Parshall Level / Inches	<u>7</u>	<u>8</u>	<u>3</u>	<u>3.5</u>				
See Flow Chart:	Parshall MGD	<u>1.68</u>	<u>2.06</u>	<u>.45</u>	<u>.5900</u>				
	Scrub Partial Flume Scale	<u>X</u>	<u>X</u>	<u>X</u>	<u>λ</u>				
	Wipe Effluent Flow Meter	<u>X</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				
	UV Effluent Reading MGD	<u>2.60</u>	<u>2.50</u>	<u>1.46</u>	<u>1.81</u>				
	UV Transmittance	<u>*</u>	<u>*</u>	<u>*</u>	<u>X</u>				
<b>LIFT STATIONS:</b>									
North Drying Bed:	Condition: Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				
	Wash & Pump Down	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				
South Drying Bed:	Condition: Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				
	Wash & Pump Down	<u>✓</u>	<u>X</u>	<u>X</u>	<u>X</u>				
<b>SEPTIC STATION:</b>									
	Condition: Good <input checked="" type="checkbox"/> Bad <input type="checkbox"/>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>				
	Wash & Pump Down	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>				

