

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.nmenv.state.nm.us



RYAN FLYNN Cabinet Secretary

BUTCH TONGATE Deputy Secretary

Certified Mail - Return Receipt Requested

March 13, 2015

Mr. Alan Briley, City Manager Sierra County Regional WWTP-North Area P.O. Box 1080 Elephant Butte, NM 87935

Re: Minor Municipal, SIC 4952, NPDES Compliance Evaluation Inspection, Sierra County Regional Wastewater Treatment Plant – North Area, NM0030864, February 25, 2015

Dear Mr. Briley,

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:

Racquel Douglas US Environmental Protection Agency, Region VI Enforcement Branch (6EN-WM) 1445 Ross Avenue Dallas, Texas 75202-2733 Bruce Yurdin New Mexico Environment Department Surface Water Quality Bureau Point Source Regulation Section P.O. Box 5469 Santa Fe, New Mexico 87502

If you have any questions about this inspection report, please contact Shelly Lemon at (505) 827-2819 or at <u>shelly.lemon@state.nm.us</u>.

Sierra County Regional WWTP – North Area March 13, 2015 Page 2

Sincerely,

/s/ Bruce Yurdin

Bruce J. Yurdin Program Manager Point Source Regulation Section Surface Water Quality Bureau

cc: Rashida Bowlin, USEPA (6EN-AS) by e-mail Carol Peters-Wagnon, USEPA (6EN-WM) by e-mail Raquel Douglas, USEPA (6EN-WM) by e-mail Gladys Gooden-Jackson, USEPA (6EN) by e-mail Michael Kesler, NMED District III, by e-mail

₽PA						Form Approved OMB No. 2040-0003 Approval Expires 7-31-85		
NPDI	ES Compliance	e Inspect	ion Report					
	Section A: Natio	onal Data S	ystem Coding					
Transaction Code NPDES 1 N 2 5 3 N M 0 0 3 0 8	6 4 11	12 1	yr/mo/da	y 2 5	17	Insp 18	cInspectorFac TypeC19S201	
W A S T E W A T E R	T R E	Remarks	M E N	т	Р	L	A N T	
Inspection Work Days Facility Evaluation R 67 0 0 1 69 70 3	Rating 71	ВІ N 72	QA	74	75]	Reserved 80	
	Section	B: Facility	Data					
Name and Location of Facility Inspected (<i>For industrial users dischar</i> <i>POTW name and NPDES permit number</i>)	rging to POTW, also	o include	Entry Time /Date 1:30 pm February 25, 2013	5			Permit Effective Date October 1, 2013	
Exit 1-25 at North end of 1 or C (Exit 79 east). Proceed south hito town left (north) onto Hwy 181. Proceed down the hill and cross Cuchillo N onto road toward Elephant Butte. Turn right at entry to Golf Course co down small canyon to "T". Turn right and follow road – it turns to diri orange cones). Veer left to WWTP. Sierra County	legro Creek. Turn r mmunity and follow t past maintenance	ight (east) w road yard (and	Exit Time/Date 2:55 pm February 25, 2013	5			Permit Expiration Date September 30, 2018	
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Other Jesse Cole, Wastewater Utility Operator III, City of Elephant Butte, cell 575-740-8791 Other GPS N				er Facility Data S: 33.154444				
Name, Address of Responsible Official/Title/Phone and Fax Number Alan Briley, P.E., City Manager, City of Elephant Butte, P.O. New Mexico 87935 / 575-744-4892 and fax 575-744-4493	Name, Address of Responsible Official/Title/Phone and Fax Number W107.231161 Alan Briley, P.E., City Manager, City of Elephant Butte, P.O. Box 1080, Elephant Butte, Contacted New Mexico 87935 / 575-744-4892 and fax 575-744-4493 Yes No X					4952		
S (S = Satisfact	ection C: Areas E tory, M = Marginal	valuated D , U = Unsat	uring Inspection isfactory, N = Not E	valuated)				
S Permit S Flow Measureme	ent	M O	perations & Mainte	enance		N	CSO/SSO	
S Records/Reports S Self-Monitoring	Program	S SI	udge Handling/Disj	posal		N	Pollution Prevention	
S Facility Site Review N Compliance Sche	dules	N Pi	retreatment			N	Multimedia	
S Effluent/Receiving Waters M Laboratory		N St	orm Water			N	Other:	
Section D: Summar	y of Findings/Con	nments (At	tach additional she	ets if nece	ssary)			
1. SEE REPORT AND FURTHER EXPLANATIONS.								
Name(s) and Signature(s) of Inspector(s)	Name(s) and Signature(s) of Inspector(s) Agency/Office/Telephone/Fax				Date			
MICHELLE LEMON /s/ Michelle Lemon	NMED/SW	QB 505-8	27-2819				3-13-2015	
/s/ Michelle Lemon Agency/Office/Phone and Fax Numbers Signature of Management QA Reviewer Agency/Office/Phone and Fax Numbers BRUCE YURDIN NMED/SWQB 505-827-2795			Date 3-13-2015					

EPA Form 3560-3 (Rev. 9-94) Previous editions are obsolete.

Sierra County Regional WWTP-North Area	PERMIT NO. NM0030864
SECTION A - PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS S NA (FURTHEL DETAILS:	R EXPLANATION ATTACHED <u>NO</u>)
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE	X Y I N I 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	XY N N NA
4. ALL DISCHARGES ARE PERMITTED	X Y N N NA
SECTION B - RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT. S G M G U NA (FURTHE DETAILS:	ER EXPLANATION ATTACHED <u>YES</u>)
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs. See "Further Explanations" in report	X Y N N NA
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	🖾 S 🗆 M 🗆 U 🗖 NA
a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING	XY N NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	XY N NA
c) ANALYTICAL METHODS AND TECHNIQUES.	X Y D N D NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	XY N NA
e) DATES AND TIMES OF ANALYSES.	XY N N NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	XY N NA
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.	🖾 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.	X Y N N NA
SECTION C - OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED.	ER EXPLANATION ATTACHED <u>YES</u>)
1. TREATMENT UNITS PROPERLY OPERATED.	⊠ ѕ □ м □ ∪ □ №
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.	
5. ALL NEEDED TREATMENT UNITS IN SERVICE.	⊠s □m □u □na
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.	
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.	🖾 S 🗆 M 🗆 U 🗆 NA
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.	$\begin{array}{c c} \blacksquare & Y & \Box & N & \Box & NA \\ \hline \blacksquare & Y & \Box & N & \Box & NA \\ \hline \blacksquare & Y & \Box & N & \Box & NA \\ \hline \end{array}$

SECTION C - OPERATIONS AND MAINTENANCE (CONTD) 9. HAVE BYPASSES OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? Y N NA 15 S0, HAST BEGULATORY ACCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 17 ES OLD PERMIT YOLATONS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N N 16 MAVE ANY INDRALLIC OVERLOADS OCCURRED AT THE TREATMENTS. Y N N 17 MAY 18 MAY N N N 18 AMPLIES ALE-MONITORING MEETS PERMIT. Y N N <td< th=""></td<>				
9. HAVE BYPASSES OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR?				
Index early hydraulic overloads occurred at the treatment plant?				
SECTION D - SELF-MONITORING PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. DETAILS: 1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT. 1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT. 2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES. 3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT. 4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT. 5. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT. 6. SAMPLE COLLECTION PROCEDURES ADEQUATE 9. SAMPLES REFRIGERATED DURING COMPOSITING. 9. PROPER PRESERVATION TECHNIQUES USED. But, temperatures of samples not documented on lab submittal forms. 9. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. 9. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. 9. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. 9. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. 9. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. 9. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. 9. TO N NA 9. SAMPLING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE 10. ENALTOR FROME MARKUREMENT 9. SAMPLE FOLONE FROMETER MEETS PERMIT REQURREMENTS. 10. FLOW MEASUREMENT MEETS PERMIT REQURREMENTS.				
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4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT. Image: Image				
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT. Image: Section Procedures Adequate Image: Section Procedures Adequate Image: Section Procedures Adequate 6. SAMPLES REFRIGERATED DURING COMPOSITING. Image: Section Techniques Used. Image: Secience Used.				
6. SAMPLE COLLECTION PROCEDURES ADEQUATE Image: Note of the state of the sta				
a) SAMPLES REFRIGERATED DURING COMPOSITING. I y N b) PROPER PRESERVATION TECHNIQUES USED. But, temperatures of samples not documented on lab submittal forms. y N c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. I y N n N 7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE the results reported in permittees self-monitoring report? SECTION E - FLOW MEASUREMENT PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. Details: Flow is batch discharge. 1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. I' PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. Y N N N N N N				
b) PROPER PRESERVATION TECHNIQUES USED. But, temperatures of samples not documented on lab submittal forms. Image:				
c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. X 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. y □ n ⊠ na PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. y □ n ⊠ na DETAILS: Flow is batch discharge. 1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. X □ n □ na TYPE OF DEVICE: 3" insert neeted in 9" Parshall flume with ultraconic flow meter				
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT? SECTION E - FLOW MEASUREMENT PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. S S M U NA (FURTHER EXPLANATION ATTACHED NO) DETAILS: Flow is batch discharge. 1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. TYPE OF DEVICE: 3" insert nested in 9" Parshall flume with ultrasonic flow mater				
SECTION E - FLOW MEASUREMENT PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. Image: State of the state of th				
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. Image: Signature of the state of th				
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED.				
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED.				
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED.				
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION_August 8, 2014.) Image: Calibration procedures. RECORDS MAINTAINED OF CALIBRATION PROCEDURES. Image: Calibration procedures. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE. Image: Calibration procedures.				
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE.				
6. HEAD MEASURED AT PROPER LOCATION.				
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES.				
SECTION F – LABORATORY				
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. \Box s \boxtimes m \Box u \Box NA (FURTHER EXPLANATION ATTACHED <u>YES</u>) DETAILS: pH analyzed on-site. When required. TRC is also analyzed on-site. Contract laboratories were not inspected.				
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES)				

Sierra County Regional WWTP-North Area						PERMIT N	D. NM0030864
SECTION F - LABORATORY (CONT'D)							
2. IF ALTERNATIVE	2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED						
3. SATISFACTORY C	CALIBRATION AND MA	AINTENANCE OF INSTE	RUMENTS AND EQUIPM	MENT.	[⊐s⊠м□υ□] NA
4. QUALITY CONTR	OL PROCEDURES ADE	QUATE.			[⊠s □ м □ u □	NA
5. DUPLICATE SAM	PLES ARE ANALYZED.	<u>10</u> % OF THE TIME.					NA
6. SPIKED SAMPLES	ARE ANALYZED.	% OF THE TIME.					NA
7. COMMERCIAL LA	BORATORY USED.					X y 🗆 n [] NA
LAB NAME LAB ADDRESS PARAMETERS PER	RFORMED	WILKINS ENVIRG 832 NW 67 TH STR WHOLE EFFLUER	ONMENTAL EET, OKLAHOMA CITY NT TOXICITY	7, OK 73116	AQUA ENVIRONMENTA 12695 LEASBURG ST PA BOD5, TSS, AND E coli	L TESTING LAB RK RD, LAS CRUCES	NM 88007
SECTION G - E	FFLUENT/RECE	IVING WATERS (DBSERVATIONS.	⊠s□м□	U 🗆 NA (FURTHER	E EXPLANATION AT	TACHED <u>NO</u>).
OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	None	None	None	None	None	Greenish	
RECEIVING WATER	OBSERVATIONS: Th	e facility batch dise	charges – discharge	e to Cuchillo Negro	was occurring at the	e time of this inspo	ection.
SECTION H - S	LUDGE DISPOSA	AL					
SLUDGE DISPOSAL DETAILS: Sludge	MEETS PERMIT REQU sent to Socorro La	JIREMENTS. ndfill	X] s 🗆 м 🗆 u 🗆 N	A (FURTHER EXPLAN	ATION ATTACHED	<u>_NO</u>).
1. SLUDGE MANAG	EMENT ADEQUATE TO	O MAINTAIN EFFLUEN	IT QUALITY.			⊠ѕ□м□υ[□ NA
2. SLUDGE RECORI	OS MAINTAINED AS RI	EQUIRED BY 40 CFR 50)3.			⊠ѕ□м□υ[□na
3. FOR LAND APPL	ED SLUDGE, TYPE OF	LAND APPLIED TO:		(e.g., FOREST, .	AGRICULTURAL, PUBLIC	C CONTACT SITE)	
SECTION I - SA	AMPLING INSPE	CTION PROCEDU	U RES (FURT	THER EXPLANATION	ATTACHED <u>NO</u>).		
1. SAMPLES OBTAI	NED THIS INSPECTION	۶.				□ y ⊠ N	🗆 NA
2. TYPE OF SAMPLE OBTAINED:							
GRAB COMPOSITE SAMPLE METHOD FREQUENCY							
3. SAMPLES PRESERVED.					X NA		
4. FLOW PROPORTIONED SAMPLES OBTAINED.					X NA		
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE.					X NA		
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE.					X NA		
7. SAMPLE SPLIT W	ITH PERMITTEE.					Δ Υ Δ Ν	X NA
8. CHAIN-OF-CUST	ODY PROCEDURES EM	IPLOYED.				Δ Υ Δ Ν	X NA
9. SAMPLES COLLE	CTED IN ACCORDANC	CE WITH PERMIT.				□ y □ n [× NA

City of Elephant Butte – Sierra County Regional WWTP North Area NPDES Permit No NM0030864 Compliance Evaluation Inspection February 25, 2015

Introduction

On February 25, 2015, Shelly Lemon of the New Mexico Environment Department (NMED), Surface Water Quality Bureau (SWQB) conducted a Compliance Evaluation Inspection (CEI) at the Sierra County Regional Waste Water Treatment Plant (WWTP) – North Area near Elephant Butte, New Mexico. The WWTP has a design flow of 0.6 million gallons a day (MGD), and is classified as a minor municipal discharger under the federal Clean Water Act (CWA), Section 402 National Pollutant Discharge Elimination System (NPDES) permit program. It is assigned permit number NM0030864, which regulates discharge of treated effluent from outfall 001 to Cuchillo Negro Creek, thence to the Rio Grande in Segment 20.6.4.103 NMAC of the Rio Grande Basin. The Rio Grande in this water quality segment includes designated uses of irrigation, livestock watering, wildlife habitat, marginal coldwater aquatic life, secondary contact and warmwater aquatic life. In addition, flow in this reach of the Rio Grande mainstem is dependent upon releases from Elephant Butte Dam.

The NMED performs a certain number of CEIs each year for the U.S. Environmental Protection Agency (USEPA), Region VI. The purpose of this inspection is to provide the USEPA with information to evaluate the Permittee's compliance with the NPDES permit. This inspection report is based on information provided by the Permittee's representatives, observations made by the NMED inspector, and records and reports kept by the Permittee and/or NMED.

Upon arrival at the WWTP at approximately 1330 hours on the day of this inspection, the inspector called Mr. Jesse Cole, Wastewater Utility Operator for the City of Elephant Butte, to inform him of the inspection. Mr. Cole said that unfortunately he was out of town on vacation, but Mr. Hayden Arthur, laborer, was monitoring the plant while he was away and was available to tour the facility and provide any documents or required records. Upon Mr. Arthur's arrival, the inspector made introductions, presented her credentials and explained the purpose of the inspection. The inspector and Mr. Arthur toured the plant until approximately 1440 hours and then went to the City's offices to photocopy some documents for a records review. The inspector left at approximately 1455 hours.

Treatment Scheme

Raw sewage flows through a collection system via six (6) lift stations to the plant. The final station is approximately one quarter mile north of the plant. Influent flow is measured with a magnetic flow meter. An additional lift station is located at the treatment plant to direct decant from the digester and the drying beds back to the headworks.

At the headworks, raw sewage passes through a manual bar screen and grit chamber. Screenings are sent down a chute to a container at ground level. The main treatment units for this facility are two sequencing batch reactor (SBR) basins and a digester which allow for aeration, mixing, anoxic and decanting of influent. Currently, about four and half cycles occur per day according to the on-site permittee representative.

Following the SBR treatment units, flow enters a flow equalization (EQ) basin before entering the disinfection unit. The EQ basin is covered to minimize algal growth in the effluent prior to discharge.

This also increases the bulb life span in the Ultraviolet (UV) disinfection chamber. Effluent flows from the EQ basin past the UV disinfection into a 3" Parshall flume for flow measurement prior to being discharged to Cuchillo Negro Creek.

Cuchillo Negro Creek above the WWTP outfall was not flowing on the day of this inspection. Effluent continued to flow in Cuchillo Negro Creek for approximately 200 feet until the flow infiltrated into the sandy streambed. The City of Elephant Butte, Sierra County Regional WWTP also has a State of New Mexico Groundwater Quality Bureau (GWQB) Discharge Permit (DP-1594).

Solids Management

Sludge produced at the plant is placed in two divided (four concrete cell) drying beds for dewatering. Screenings removed from the bar screen are also transported and disposed with the dried sewage sludge. Once the sludge passes a paint filter liquid test it is stockpiled on site for further drying and pathogen removal through natural processes. The facility uses a roll off for further storage to prevent moisture from rewetting the material.

The dewatered sludge is transported to the Socorro Landfill by a registered waste hauler for final disposal. A representative sample of dewatered sludge from every load is tested for free liquids, pH, and percent solids; and annually for Toxicity Characteristic Leaching Procedure (TCLP) parameters. The facility representative estimates that two trips per year are needed, hauling approximately 20 cubic yards per trip.

FURTHER EXPLANATIONS

<u>Note:</u> The sections are arranged according to the format of USEPA Form 3560-3 and checklist, attached, rather than being ranked in order of importance.

Section B – Recordkeeping and Reporting – Overall Rating "Satisfactory"

The permit states in Part II.A:

For pollutants listed on Appendix A of Part II with MQLs, analyses must be performed to the listed MQL. If any individual analytical test result is less than the MQL <u>listed</u> [on Appendix A of Part II, emphasis added], a value of zero (0) may be used for that pollutant result for the Discharge Monitoring Report (DMR) calculations and reporting requirements.

Findings for Section B – Recordkeeping and Reporting:

Data reported for June 2014 and October 2014 were evaluated. For the records reviewed, analytical results were consistent with data reported on the DMRs, except for TSS. For both of these months, TSS values were reported as zero (0) because the analytical results were below the detection limit. However, unless otherwise stated in the permit, values below the detection limit are to be reported with a less than symbol ("<") and the numeric value for the detection limit using the EPA approved method. Where the permit contains a listing of MQLs and the permittee is granted authority in the permit to report zero in lieu of the <MQL for the specified parameters (e.g., Appendix A of Part II), then zero may be reported for those listed parameters. The permittee may request authorization from its regulatory agency to report zero when the permit does not contain this language.

EPA Region 6 discusses this situation in the Most Commonly Asked Questions section of its NPDES Reporting Requirements Handbook:

How do I report effluent data below detection limit?

Where authority has not been granted to report zero, the less than MQL values are to be averaged with the numbers greater than the MQL and report the calculated average using the less than symbol.

For Example: MQL is 3 mg/L, 4 sample results in a month: <3, 5, <3, 7. The Monthly Average = (3 + 5 + 3 + 7)/4 = 4.5Report on the DMR for Monthly Average as "<4.5"

Some permittees have complained that the MQL concentration for a parameter results in a loading calculation they believe is higher than they actually have. Unless one of the provisions discussed above applies, allowing you to use "0" for your calculation, you are to use the MQL concentration for calculating the loadings for results that are below the MQL. The only way to improve the loadings calculation is to switch to another approved method that has a lower MQL.

		30 DAY AVG (lbs/day)	7 DAY AVG (lbs/day)	30 DAY AVG (mg/L)	7 DAY AVG (mg/L)	% Removal
6/30/2014	TSS	<0.323	<0.437	<0.628	<0.800	99.7
10/31/2014	TSS	<1.01	<1.20	<1.82	<1.88	98.6

Data should have been reported on the DMRs as (see lab results on following page):

Here are the results that were below detect:

TSS Results						
	Influent	Effluent	% removal	FLOW	LOAD	
6/3/2014	212	< 0.455	-	0.05522	< 0.210	
6/10/2014	-	< 0.800	-	0.06543	< 0.437	
AVERAGE	212	< 0.628	99.7	-	< 0.323	
10/7/2014	134	<1.75	-	0.08219	<1.200	
10/14/2014	-	<1.88	-	0.05248	< 0.823	
AVERAGE	134	<1.82	98.6	-	<1.011	

It was also noted during the records review that some flow reporting was suspect, but without the flow logs the inspector was unable to double-check the reported values. On several occasions the 30-day average flow was greater than the 7-day average flow, which seems questionable. On two of those months (March 2012 and August 2013) it appears that a "0" is missing from the 30-day average value (...should be 0.05470 and 0.05973, respectively?). The inspector would remind the permittee to double check data entry as part of their QA/QC program and to ensure the appropriate and correct values are being reported.

Reporting		30 DAY	7 DAY		Permit	Permit
Month	parameter	AVG	AVG	Units	begin date	end date
3/31/2012	Flow	0.54704	0.05645	MGD	8/1/2007	7/31/2012
5/31/2012	Flow	0.06041	0.05864	MGD	8/1/2007	7/31/2012
5/31/2013	Flow	0.05179	0.05118	MGD	8/1/2007	7/31/2012
8/31/2013	Flow	0.59727	0.06240	MGD	8/1/2007	7/31/2012
12/31/2014	Flow	0.05140	0.05090	MGD	10/1/2013	9/30/2018

Section C – Operations and Maintenance: Overall rating of "Marginal"

Part III.B.3.b (Standard Conditions, Proper Operation and Maintenance) of the permit states:

The permittee shall provide an adequate operating staff which is duly qualified to carry out operation, maintenance and testing functions required to insure compliance with the conditions of this permit.

Findings for Section C – Operation and Maintenance:

Mr. Cole, Wastewater Operator III, is the only certified operator available to do operation, maintenance and testing at this facility. There is one other man, Mr. Hayden Arthur, currently working at the WWTP but he is not certified yet. Mr. Arthur intends to take his Level I certification exam for the first time in October 2015. It is highly recommended that a backup certified operator is available in the event that Mr. Cole is sick or takes a vacation.

The permittee is also reminded that written procedures for emergency treatment control (e.g., alternative disinfection in case the UV system goes down, spills, lift station and sanitary sewer overflows) should be readily available if an emergency were to occur, and in the event that the lead operator is on leave and otherwise unable to respond.

Section F – Laboratory: Overall rating of "Marginal"

The permit requires in Part III.C.5:

- a. Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit or approved by the Regional Administrator.
- 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.

<u>Findings</u> for Laboratory:

Proper preservation of compliance samples includes keeping the samples at or below 6°C for BOD and TSS and below 10°C for *E. coli*. The sample temperatures at receipt in the lab are not recorded on the Sample Submittal Forms. In addition, if chlorine is used in the treatment process, the permittee is reminded that Table IA-Bacterial Tests of 40 CFR 136.3 states, "*Add a reducing agent if an oxidant (e.g., chlorine) is present.*" Proper preservation techniques for *E. coli* (in the presence of chlorine) would include the addition of 0.0008% sodium thiosulfate to the sample bottle to dechlorinate.

40 CFR PART 136.3 TABLE II

Parameter number/name	Preservation	Maximum holding time
1-5. Coliform, total, fecal, and E. coli	Cool, <10 °C, 0.0008% Na ₂ S ₂ O ₃ ⁵	8 hours.
9. Biochemical oxygen demand (BOD)	Cool, ≤6 °C	48 hours.
55. Residue, Nonfilterable (TSS)	Cool, ≤6 °C	7 days.

5 ASTM D7365-09a specifies treatment options for samples containing oxidants (e.g., chlorine). Also, Section 9060A of Standard Methods for the Examination of Water and Wastewater (20th and 21st editions) addresses dechlorination procedures.

According to the permittee's representative, the only analytical procedure for compliance conducted on site in the laboratory is pH. During the inspection, the permittee's representative indicated that calibrations are performed once a week. Standard Method 4500-H+ states that when only occasional pH measurements are made, the instrument should be calibrated before each measurement. It is recommended that the pH probe be calibrated each day prior to an actual measurement.

Photographer: Shelly Lemon	Date: 02-25-2015	Time: 14:13 hours			
City/County: Elephant Butte/Sierra Co					
Location: Sierra County Regional WV	Elephant Butte)				
Subject: Aerobic Digester					



Photographer: Shelly Lemon	Date: 02-25-2015	Time: 14:17 hours		
City/County: Elephant Butte/Sierra Co				
Location: Sierra County Regional WV	Elephant Butte)			
Subject: Parshall Flume				



Photographer: Shelly Lemon	Date: 02-25-2015	Time: 14:21 hours			
City/County: Elephant Butte/Sierra Co					
Location: Sierra County Regional WWTP – North Area (City of Elephant Butte)					
Subject: Cuchillo Negro – Upstream					



Photographer: Shelly Lemon	Date: 02-25-2015	Time: 14:21 hours		
City/County: Elephant Butte/Sierra Co				
Location: Sierra County Regional WV	Elephant Butte)			
Subject: Cuchillo Negro – Downstream of outfall				



PERMITTEE RESPONSE



CITY OF ELEPHANT BUTTE P. O. Box 1080 Elephant Butte, New Mexico 87935 (575) 744-4892 FAX (575) 744-4493 "New Mexico's Diamond in the Desert"

To:

5-5-2015

Shelly Lemon NMED-SWQB Compliance Evaluation Inspection

This letter is in response to the CEI inspection performed on February 25, 2015 at the Sierra County Regional Wastewater Treatment Plant-North Area, NPDES #NM 0030864.

In the findings for õSection B- Record Keeping and Reportingö there was a question about our MQLøs being reported as zeros on the DMR. This was a question brought up by one of my lab specialists who does visits. She noticed that we were going to report a number that was below the MQL and we called and spoke with Barbara Cooney with NMED on the topic and also Jan Walker with EPA. Jan Walker put me in touch with our new facility oversight, Gladys Gooden-Jackson with EPA. We explained the situation to her and she did give me the ok to report õ0ö for any contaminant that was below the MQL.

I had previously stated to you that there was a mistake made on the DMR in regards to the 30 day average flows, but that is actually not the case. I am including a photograph of the DMRøs that I sent into EPA and the flows were correct on the DMRøs when I sent them. There must have been an error in the communications between the DMR and your desk. Note also that one of the DMR photos was labeled õREVISEDö in red pen; I also included the original one for March 2012. The one in August is reported properly on my DMR copy so I donøt know where the mistake was made. That being the case I didnøt call Gladys Gooden-Jackson in regards to whether I needed to have them corrected.

In the finding for õSection C- Operations and Maintenanceö I will be generating an emergency protocol for very particular instances that may affect the quality of the effluent, including UV failure, during this year. It will cover a much broader spectrum than just disinfection though.

I have been attempting to get certified operators for the facility but have not been successful thus far in having people taking the exams. We are confident though that Mr. Hayden Arthur will be more than capable of taking and passing his exam this upcoming fall.

And just for your records I am currently a level IV wastewater operator in the State of New Mexico as well as a level III water system operator in the State of New Mexico.

In the finding for õSection F- laboratoryö there is a question of temperatures on our samples. I did call and give an explanation in regards to this topic. The laboratory that we use is very close and considering that our samples are all done on a grab sample basis, if the lab takes temps upon arrival they have not been on ice long enough to be cooled to appropriate temperatures. Therefore the laboratory dates and times them upon arrival and then continues to chill them in their refrigerator until the procedures are performed. If temps were taken upon immediate arrival they would not have time to cool to the temperatures stated in the requirements, not because of lack of effort but due to the times being held being so short.

There is also a question on our calibration procedure for pH measurement. Method 4500-H+ B Electrometric Method, step #4a õinstrument calibrationö on page 4-94 of the 22^{nd} edition of the Standards and Methods for the Examination of Water and Wastewater clearly states in the first sentence õIn each case follow manufacturerøs instructions for pH meter and for storage and preparation of electrodes for use.ö. I have contacted Hach in regards to our calibration procedures and frequency, and they have, on multiple occasions informed me that the meter we are using, a once a week calibration is more than enough as long as the accuracy check of the millivolts (mV) slope is within a 58 ± 3 mV per pH unit. These values are recorded on our calibration records every Monday and since it is a manufacturerøs instruction will supersede any other directions beyond in the 4500-H+ B Electrometric Method. There has yet to be an instance where we were out of the acceptable range based on our manufacturerøs instructions for the slope mV check.

Also, we do utilize sodium thiosulfate in all of our e-coli bottles which is premeasured by IDEXX and is inside of a sealed bottle with a safety band until it is opened and samples are added. Though we do not use chlorine for disinfection purposes, we do keep a small amount of calcium hypochlorite for the following items, Algae control, filament control and emergency disinfection purposes.

Thanks for your time on the above mentioned matters. Iøm sorry that I was not able to be in attendance during your inspection in February. I look forward to continuing a working relationship with NMED and all of its constituents. Please call me in regards to anything in the body of this letter if clarification is needed or other questions arise. I can be reached at: Cell: 575-740-8791 Office: 575-744-9163 Email: wastewater@cityofelephantbutte.com

Sincerely,

Jesse Cole City of Elephant Butte Wastewater Supervisor



CITY OF ELEPHANT BUTTE

P. O. Box 1080 Elephant Butte, New Mexico 87935 (575) 744-4892 FAX (575) 744-4493 "New Mexico's Diamond in the Desert"

February 19, 2013

Hannah Branning (6 EN-WC) U.S. Environmental Protection Agency 1445 Ross Avenue, Suite 1200 Dallas, Texas 75202-2733

Re: Discharge Permit (NM0030864) 1594

Dear Ms. Hannah Branning:

Enclosed is the revised DMR's from March 2012 thru December 2012. As previously stated there was some miscalculations in regards to 7 day flow averages that have since been fixed and E.coli geometric averages. Revisions were made on all parts of the DMR's so don't limit changes to only those categories. There were no exceedences on any of the reports. If you have any questions please feel free to call me at 575-740-8791. Thank you,

Sincerely,

Yesse Cole

Jesse Cole Wastewater Operator III

FACILITY: LOCATION:	SIERRA COUNTY REGIONAL WWTP	NM0030864 PERMIT NUMBER	001A DISCHARGE NUMBER
ATTN	TRUTH OR CONSEQUENCES, NM 87935	MONITO	RING PERIOD
	e Kent	FROM 3-1-2012	MM/DD/YYYY TO 3-31-20/2

PARAMETER	The state of the state of the			and the second second							100
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н	SAMPLE	30DA AVG	7 DA AVG	ioru -	San Tres	30 30DA AVG	45 7 DA AVG	mg/L	1	Three Per	COMP.3
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Effluent Gross	PERMIT	*****			6.6	******	1.02	SU	0	31 man	grab
Solids, total suspended	SAMPLE	12	2.0	111	MINIMUM		MAXIMUM			Three Per Month	GRAB
00530.1.0	MEASUREMENT	lix	5.18	16/02		3.3	1.0	MgIL	0	3/100	Comp-2
Effluent Gross	REQUIREMENT	30DA AVG	225.2 7 DA AVG	lb/d		30 30DA AVG	45 7 DA AVG	mg/L		Three Per	00000
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	-06878	.05611	M6D					0	Month	L.tola
50050 1 0 Effluent Gross	PERMIT	Req. Mon. 30DA AVG	Req. Mon. 7 DA AVG	Mgal/d						Continuous	TOTALZ
Chlorine, total residual	SAMPLE MEASUREMENT					*****	NA	NA	0	A/A	MA
50060 1 0 Effluent Gross	PERMIT				*****		11 INST MAX	ug/L	1	Daily	GRAE
E. coli	SAMPLE					1.0	1.0	CFU/	0	3100	alam
51040 1 0 Effluent Gross	PERMIT	******		*****	*****	548 30DAVGEO	2507 DAILY MX	CFU/100r	n	Three Pr Month	er GR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Alan Briley, City Manager TYPED OR PRINTED

I contify under penalty of law that this document and all attentiments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manages the system, or those persons directly responsible for gathering the information, the information automitted is, to the heat of my knowledge and belief, true, occurate, and complete. I am aware that there are significant penaltize for submitting false information, including the possibility of fine and improvement for knowing violations.

SIGNATURE OF PRINCIPAL EXECUT AUTHORIZED AGE DMR Malling ZIP CODE: 87. MINOR

TOTAL FACILITY DISCHARGE External Outfall

No Discharge

1	TELE	PHONE	DATE				
1	575	7444892	04/09	12012			
THE OFFICER OR	AREA Code	NUMBER	MMDDIYY	ma 1			

ADDRESS:	P.O. BOX 1080 ELEPHANT BUTTE, NM 87935
FACILITY:	SIERRA COUNTY REGIONAL WWTP
LOCATION:	SECTION 27 TI35 R04W TRUTH OR CONSEQUENCES, NM 87935

PERMITNOMBER Dioornation

MONITORING PERIOD MM/DD/YYYY MM/DD/YYYY FROM 03/01/2012 TO 03/31/2012 External Outfall

	1 - St. Superfection of	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE	
ATTN: Eunice Kent PARAMETER BOD, 5-day, 20 deg, C 00310 1 0 Effluent Gross pH 00400 1 0 Effluent Gross Solids, total suspended 00530 1 0 Effluent Gross Flow, in conduit or thru treatment plant 50050 1 0 Effluent Gross Chlorine, total residual	and the second second	VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
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1000, 5-day, 20 deg. C	PERMIT	150.1 30DA AVG	225,2 7 DA AVG	Ib/d		30 30DA AVG	45 7 DA AVG	mg/L		Three Per Month	COMP-3
Effluent Gross	SAMPLE				7.36		7-63	50	0	3×MO	Giab
00400 1 0 Efficient Gross	PERMIT			*****	6.6 MINIMUM		9 MAXIMUM	SU		Three Per Month	GRAB
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00530 1 0 Effluent Gross	PERMIT	150,1 30DA AVG	225.2 7 DA AVG	lb/d	*****	30 30DA AVG	45 7 DA AVG	mg/L		Three Per Month	COMP-3
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Revised

1	NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I exercite analyse penalty of how that this descentent and all attachments nore prepared under my detection or respervised in necessions with a assistent designed to ansate the possibility processed preparity gather and excitations the information submitted. Based on my inspiry of the person or persons who manage the system, or those persons directly responsible for gathering the allocation, the information submitted is, to be best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant possibles for softeniting failse information, including the possible of fine and improvement for knowing evaluations.	SIGNAT	Can Bule	ECUTIVE OFFICER
L	TYPED OR PRINTED	and the second		00-0100	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TOTAL FACILITY DISCHARGE

No Discharge

200009-2018-2018-2512-2512-2512-2512-2512-2000-2000-



ADDRESS:	P.O. BOX 1080 ELEPHANT BUTTE, NM 87935		PERMIT NUMBER		DISCHARGE NUMBER		
FACILITY:	SIERRA COUNTY REGIONAL WWTP		MONIT	ORING	PERIOD		
LOCATION:	SECTION 27 TI35 R04W TRUTH OR CONSEQUENCES, NM 87935		MM/DD/YYYY		MM/DD/YYYY		
ATTN Funice	Kent	FROM	08/01/2013	TO	08131/203		

MINOR

QUANTITY OR LOADING QUALITY OR CONCENTRATION PARAMETER VALUE VALUE VALUE VALUE UNITS VALUE SAMPLE 2.96 3.26 4 1,65 16/d BOD, 5-day, 20 deg. C ----MEASUREMENT ****** 150,1 225.2 PERMIT Tb/d 30 45 0031010 30DA AVG 7 DA AVG 7 DA AVG 30DA AVG REQUIREMENT Effluent Gross 7.58 SAMPLE 7.18 ----***** ****** ***** DH MEASUREMENT ****** ***** STAAA. 6.6 PERMIT 0040010 MINIMUM MUMIXAM Effluent Gross REQUIREMENT .30 63 16/d 0.75 1.42 SAMPLE ****** Solids, total suspended MEASUREMENT ****** 150.1 225:2 lb/d 30 45 PERMIT 00530 1 0 7 DA AVG 30DA AVG 7 DA AVG 30DA AVG Effluent Gross REQUIREMENT MGD SAMPLE 0624029 ----059726774 ----****** Flow, in conduit or thru treatment plant MEASUREMENT Req. Mon. 7 DA AVG annada. ****** ----Req. Mon. 30DA AVG Mgel/d 50050 1 0 PERMIT REQUIREMENT Effluent Gross SAMPLE ----..... ---------------10 Chlorine, total residual MEASUREMENT ****** ****** ****** -----11 ****** 50060 1 0 PERMIT INST MAX Effluent Gross REQUIREMENT SAMPLE ****** ****** E. coli MEASUREMENT 2507 ----****** ****** 548 5104010 PERMIT DAILY MX 30DAVGEO Effluent Gross REQUIREMENT

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

Alan Britey

ally of low that this document and all all evidents the information with a system designed to some that quilified prevented property gather and evidents the information submitted. Based on any impury of the prevence or previous who manage the system, or these persons directly responsible for gathering the information, the information submitted is, to the best of my Encodedge and befort, true, accurate, and complete. I am awaye that there are significant proximities for submitting false information, including the passibility of fire and imprisonment for knowing violations.

Inthe IDSert

IGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

OMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

City Manager

TOTAL FACILITY DISCHARGE External Outfall

No Discharge

FREQUENCY OF ANALYSIS SAMPLE NO. EX TYPE UNITS 3XMO Mg/C Cong-3 \mathcal{O} mg/L Three Per COMP-3 Month 50 3×MO GRAB 0 SU Three Per GRAB Month MAIL in?? 3XMC mg/L Three Per COMP-3 Month OLALZ ----wat-rucy 3 ***** **JATOT** Continuous VIA A ugh GRAB Daily RAB CFU ML 3×MO Three Per CFU/100m GRAB Month

Page 1

JTAO TELEPHONE 03/2013 09 5757444892 MMDDFFYY NUMBER AREA Colds