

North Little Rock Wastewater

P. O. Box 17898, North Little Rock, AR 72117-0898



2019 End of Year Report

Consent Administrative Order LIS 10-218 CLOSED



PREFACE

North Little Rock Wastewater (NLRW) was granted closure of CAO LIS 10-218 on November 5, 2018, having demonstrated significant reductions in Sanitary Sewer Overflows and having established a program of continuous improvement and maintenance of its collection system. Due to these ongoing improvements, NLRW is pleased to continue submittal of annual reports until February 1, 2021.

(COVER PHOTO - Drone photo of aeration basins, parshall flume, influent pump station, and high water pump station at Faulkner Lake WRF taken June 3, 2019.)

North Little Rock Wastewater 2019 End of Year Report

Consent Administrative Order LIS 10-218 Closed

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North Little Rock Wastewater 2019 End of Year Report

Consent Administrative Order LIS 10-218 Closed

Attn: Alan Anderson, Enforcement Analyst Water Enforcement Division Arkansas Department of Environmental Quality

In accordance with the request to continue submitting annual reports following closure of CAO LIS 10-218 until February 1, 2021, North Little Rock Wastewater has completed the 2019 End of Year Report.

#

1. Wastewater Master Plan

A. Milestone Schedule

Date

- Feb. 1, 2011
- Feb. 10, 2011
- Mar 10, 2011
- Mar. 10, 2011
- Apr. 25, 2011 Feb. 25, 2013
- Feb. 1, 2012 Feb. 1, 2021 Or until closure of this CAO

Milestone

First Annual Report due Effective date of Order Cross Connection Certification due First Penalty Payment due (\$4,375.00) Monthly Penalty Payment due (\$4,375.00/Mo.)

Annual Report due

B. Capital Improvements Plan (CIP)

Following is a listing of projects scheduled or completed as part of the Capital Improvements Plan recommendations from the 2011 Master Plan indicating progress made to date.

ii. Pipeline Rehabilitation

i. Treatment Plant Projects

FACILITY	PROJECT NAME	Ś	% COMPLETE	DATE
Faulkner Lake	Modifications to Influent Pump Station	\$2,106,883	100%	5/18/2014
Faulkner Lake	Phase III STP Modifications	\$3,554,543	100%	12/1/2015
Five-Mile Creek	Wastewater Treatment Plant Modifications 2013	\$5,343,313	100%	7/14/2014
Faulkner Lake	Maintenance and Emergency Equipment Storage Facilities	\$616,227	100%	9/12/2014
Maumelle	Maumelle/White Oak Diversion Project	\$16,000,000	50% Design	12/31/2019
	TOTAL \$	\$27,620,966		

Projects

LINEAL % \$ **PROJECT NAME** METHOD FT COMPLETE DATE Baring Cross Basin CIPP 2016 Rehabilitation CIPP 22,925 \$1,808,523 100% 11/17/18 Pipe Baring Cross Basin Pipe Bursting 2016 Rehabilitation \$4,137,738 100% 10/01/18 Bursting 51,026 W. Levy/212 Basin CIPP 2016 Rehabilitation CIPP \$1,763,351 26,359 99% 12/31/19 Pipe \$1,978,362 08/21/19 W. Levy/212 Basin Pipe Bursting 2016 Rehabilitation Bursting 31,561 100% Lower Riverside Interceptor CIPP/SL 4,345 \$4,400,000 Design 12/31/18 South Levy/Indian Hills CIPP 2017 Rehabilitation CIPP 49,153 \$2,882,300 63% 12/31/19 Pipe South Levy/Indian Hills Pipe Bursting 2017 Rehabilitation Bursting 39,108 \$3,585,300 96% 12/31/19 Pipe Under Lakewood Pipe Bursting 2019 Rehabilitation Project 25,850 \$1,988,834 12/31/19 Bursting Contract Under CIPP Lakewood CIPP 2019 Rehabilitation Project 21,829 \$1,241,831 12/31/19 Contract 272,156 \$23,786,239 TOTAL

iii. Pump Station Projects

PROJECT NAME	\$	% COMPLETE	DATE
Shillcutt Pump Station Modifications	\$5,166,843	100%	10/23/14
2013 Auxiliary Generators and Transfer Switches	\$392,922	100%	07/23/14
2014 Auxiliary Generators and Transfer Switches	\$191,995	100%	12/31/14
Oakbrook/Manor Drive Pump Station Upgrade	\$11,392	100%	08/01/16
3306 E. 10th Street Pump Station and Force Main	\$369,713	100%	12/31/17
2017 Auxiliary Generators & Transfer Switches	\$286,411	100%	12/31/17
2018 Auxiliary Generators & Transfer Switches	\$193,056	100%	07/31/19
2019 Wilcox Liftstation Rehabilitation Project	\$54,230	100%	03/04/19
TOTAL \$	\$6,666,562		

iv. Miscellaneous Gravity Collection Improvements

The Capital Improvements Plan included a line item for miscellaneous gravity system improvements. These are projects identified during the flow monitoring and hydraulic modeling phases of the Masterplan. Staff identified the projects with the highest priority as follows.

		%									
PROJECT NAME	\$	COMPLETE	DATE								
Sediment Removal (FL-P1-SR)	\$290,000	0%	12/31/17								
Cedar Street Sewer Improvements	\$220,000	*	12/31/17								
Gravity Pipe Replacement (FL-GS02)	\$1,300,000	0%	12/31/17								
Gravity Pipe Replacement (FL-GS03)	\$1,100,000	0%	12/31/17								
White Oak Interceptor Phase II	\$4,796,835	100%	12/31/17								
TOTAL \$	\$7,706,835										
* Will be started following final stabilizati others.	* Will be started following final stabilization of the landslide by others.										

C. Sewer System Evaluation Survey (SSES)

Following is a summary of SSES fieldwork completed to date.

	SUMMARY OF SSES FIELDWORK											
	<u>Smo</u>	ke Testing		Manhole Inspections			Dye Testing			<u>CCTV</u>		
Project Name	Quantity	Defects	I/I	Quantity	Defects	I/I	Quantity	Defects	I/I	Quantity		
	<u>(LF)</u>	<u>(EA)</u>	<u>(mgd)</u>	<u>(EA)</u>	<u>(EA)</u>	<u>(mgd)</u>	<u>(EA)</u>	<u>(EA)</u>	<u>(mgd)</u>	<u>(L/F)*</u>		
2012 SSES (Levy Area)	205,569	256	0.539	571	633	0.354	50	42	1.567	276,870		
2013 SSES (Lakewood Area)	308,152	945	0.625	641	566	0.351	64	49	0.843	229,503		
2014 SSES (Baring Cross and Oakbrook SID)	340,896	1,238	2.424	1,636	1,515	0.846	81	70	2.42	317,521		
2015 SSES (West Levy and District 212)	378,056	585	0.74	1,762	1,546	0.958	56	30	0.835	544,811		
2016 SSES (S Levy, Indian Hills and Dixie)	385,530	499	0.442	1,763	2,187	1.448	33	24	0.271	437,809		
2017 SSES (Rose City)	450,144	589	1.284	1,993	4,019	1.348	44	39	0.499	483,594		
2018 SSES (Maumelle/White Oak)	437,058	193		1,833	2,047	1.232	15	11	0.168	402,424		
2019 SSES	445,980			1,210			15					
* System Wide	2,951,385	4,305	6.054	11,409	12,513	6.537	358	265	6.603	2,692,532		

PROJECT		%	
NAME	\$	COMPLETE	DATE
SSES 2012	\$275,543	100%	7/2013
SSES 2013	\$457,098	100%	6/2014
SSES 2014	\$486,133	100%	3/2015
SSES 2015	\$534,621	100%	3/2016
SSES 2016	\$549,062	100%	2/2017
SSES 2017	\$679,258	100%	12/2017
SSES 2018	\$690,406	100%	6/2019
SSES 2019	\$445,980	60%	12/2019
TOTAL	\$4,118,101		

Following is a map delineating the schedule of SSES fieldwork.



D. SSES, Pumping Station, Capacity Assessment, and Hydraulic Model Evaluation Report

The Masterplan 2011 included a "Capacity, Management, Operations, and Maintenance Self-Assessment Report", "Flow Monitoring ", and "Hydraulic Model" of the North Little Rock Wastewater Utility's facilities. This information, along with staff input, was used to develop the capital improvements plan.

NLRW's geographical information system has been utilized to subdivide the collection system into sub-basins or "sewersheds" of manageable size. SSO data for non-capacity related overflows is being used to focus the Utility's cleaning efforts to the sewersheds with the highest number of noncapacity related overflows.

The following map (Flow Monitoring Locations) documents the efforts to collect flow data prior to and after completion of rehabilitation projects during the calendar year.



D. Collection System and Wastewater Treatment Plant Remedial Measures Plan

Following is an update of progress on specific collection system and WWTP Remedial Measures:

The remedial measures plan generally consists of measures involving existing equipment, personnel and practices which can be modified to reduce the occurrence of SSOs.

- i. Increase production of TV and cleaning crews
- a. The following graph and map document the efforts to increase production of the TV crews in targeted areas.

NOTE: On October 29, 2018 both of the Utility's CCTV vans were destroyed in a fire at the Faulkner Lake Water Reclamation Facility. Both units have been replaced, and new units were put in service on December 26, 2018.





b. The following graph and map document the efforts to increase production of the cleaning crews in targeted areas.



NOTE: October 29, 2018, three (3) Vac-cons (unit #'s 104, 122 & 133) were destroyed in a fire at the Faulkner Lake Water Reclamation Facility. These Vac-cons have been replaced by units 141, 142, 143 and 144 (one new Vac-con was on-order prior to the fire) and put in service on January 3, 2019.



ii. Increase production by adding additional crews or personnel

A fifth Vac-con was purchased and one of the Power Rodder Crews was converted to a Vac-con Crew in June 2015. NLRW now operates the following cleaning crews:

4 Vac-con Crews1 Power Rodder Crew1 Power Drive Crew

Vac-con #4 is kept as a spare and is shared by all Vac-con Crews when their equipment is down for maintenance.

iii. Provide emergency response connections and Supervisory Control and Data Acquisition (SCADA) systems at pump stations and treatment plants.

> Following the ice storms in December 2000, the Utility implemented a program to provide emergency pumping connections at all the pump stations. The connections allow a trailer mounted, suction lift pump to draw water from the wetwell and pump directly into the force main, thus by-passing the permanent pumping equipment during emergency situations such as power and equipment failures.

> NLRW has four trailer mounted generators which can be stationed for temporary service at facilities with transfer switches.

> Permanent mounted generators and automatic transfer switches are being incorporated in new facilities and in other select facilities to minimize potential SSOs related to power outages.

> Liftstations were upgraded from using OMNISITE units to being incorporated into the existing Ignition SCADA system with the Treatment Plants. The advantages of doing this includes the following:

> All stations controls are updated to the same PLC and set up in a similar fashion to reduce troubleshooting and downtime on future control issues. This simplifies the need for spare controllers and parts the Utility keeps on the shelf for emergency situations. Level transducers are installed at each lift station. This provides more data for Utility staff, while eliminating issues with sticking floats. Existing float systems do remain in place as a backup system. The new system estimates pump gpm, which is used to determine pump clogging. A new, more robust alarm system is custom tailored for the North Little Rock Wastewater Utility.

> The following tables identify emergency response connections at pump stations and treatment plants.

NURT	T LITTLE ROCK WASTEWATER PUT		ERGENCIR	ESPONSE CON	INECTIONS	THOTHO	
		PUMP TRANSFER		051/551/705	101 70	SCADA	SCADA UNIT
#		CONNECTION	SWICH	GENERATOR	VULIS	INPE	#
402	CLAVION CHAPEL	Y	N	N	230 10	IGNITION	3082
405		V V	AUTO	Y	240 30	IGNITION	3082
406	3306 E 10th	Ŷ	ALITO	Y	240 30	IGNITION	3080
407	HWY 107	Y	AUTO	Y	240 30	IGNITION	3083
408	LANSBROOK	Y	Manual	Ň	240 3Ø	IGNITION	3027
409	MARYLAND EAST	Y.	AUTO	Y	240 3Ø	IGNITION	3083
410	MARYLAND PLACE	Y	N	N	240 1Ø	IGNITION	3105
413	COCK-OF-THE-WALK (#2)	Y	N	N	480 3Ø	IGNITION	1115
414	MAYBELLINE	Y	AUTO	Y	480 3Ø	IGNITION	.3028
415	MCALMONT	Y	N	N	240 3Ø	IGNITION	3105
416	MID-STATE	Y	N	N	240 3Ø	IGNITION	3107
417	OAKBROOK	Y	N	N.	480 3Ø	IGNITION	1030
418	PINE TREE	N	N	N	240 1Ø	IGNITION	3108
419	SHILLCUT	N	AUTO	Y	480 3Ø	IGNITION	
420	SHORTER COLLEGE	Y	N	N	240 3Ø	IGNITION	3110
421	BURNS PARK EAST	N	N	N	240 3Ø	N/A	-
422	BURNS PARK WEST	N	N	N	240 10	NA	2110
423	LAKEWOOD PLACE	N	. <u>N</u>	N	230 10	IGNITION	3110
424 A 25		Y	N	N.	100 300	IGNITION	3028
420		Υ 	N AUTO	N V	400 312	IGNITION	3110
420		T V	N	N	480 200	IGNITION	2000
470	BALICI MINDUSTRIAL	Ý	N N	N	208 30	IGNITION	20.20
430	WILCOX	Y	ALITO	Y	480 30	IGNITION	3026
430	QUARAW	Y	AUTO	Y	240 30	IGNITION	3028
432	HWY 365SHERMAN RD	Ŷ	AUTO	Y	480 30	IGNITION	3081
433	GAP CREEK	Ŷ	AUTO	Y	240 3Ø	IGNITION	3080
434	HARRIS INDUSTRIAL PARK	Y	N	N	480 3Ø	IGNITION	3026
435	BURNS PARK RV PARK	N	N	N	240 1Ø	N/A	
436	BURNS PARK LANDSCAPING	N.	N	N	240 1Ø	N/A	
437	BURNS PARK SOUTH	N	N	N.	240 1Ø	N/A	
438	HILL LAKE	N	AUTO	Y	480 3Ø	IGNITION	3028
439	BURNS PARK SOCCER FIELDS	N	N	N	230 1Ø	N/A	
440	COLLINS INDUSTRIAL PARK	Ŷ	AUTO	Ŷ	480 3Ø	IGNITION	3056
441	COUNTS MASSIE	Y	AUTO	Y	480 3Ø	IGNITION	3080
442	CHAPEL RIDGE	Y	N	N.	240 3Ø	IGNITION	3056
443	RIXIE PUMP -HWY 161	Y	AUTO	Ý	480 3Ø	IGNITION	3055
444	RIXIE PUMP-LUCKY DR.	Y	AUTO	Ý	480 3Ø	IGNITION	3055
445	RIXIE PUMP- TRAMMEL RD	Y	AUTO	Y	480 3Ø	IGNITION	3055
446	RIXIE PUMP-RIXIE RD- RR TRACK	Y	N	N	480 3Ø	IGNITION	3055
447	CYPRESS CROSSING	Y	AUTO	Y	480 3Ø	IGNITION	3026
448	CRYSTAL BAY	Y	N	N	480 3Ø	IGNITION	3080
449		Y	N	N	240 10	IGNITION	3055
450	EUREKA GARDEN & 461H	Ŷ	AUTO	Y	240 30	IGNITION	3056
451	EUREKA GARDEN RU	Y V	AUTO	Y NI	240 360	IGNITION	3000
452	EUREKA GARDEN & JUDT LANE	Y	Mariuar	N	240 3Ø	IGNITION	3035
400 601	BOLIDIES	N	AUTO	N	230 10	IGNITION	1071
602	C C BALLEIELDS	Y	ALITO	Y.	480 30	IGNITION	1057
603	COUNTS MASSIE #2	N	N	N	230 30	IGNITION	1102
604	DIAMOND POINT	N	N	N	480 30	IGNITION	1120
605	DURANGO	N	N	N	460 30	IGNITION	1118
606	HIGH SCHOOL	N	N	N	480 3Ø	IGNITION	1117
607	LAWRENCE	N	N	N	230 1Ø	IGNITION	1102
608	MARANES	N	N	N.	230 1Ø	IGNITION	1100
609	MASTERS PLACE	N	N	Ň	230 1Ø	IGNITION	1102
610	MAUMELLE VALLEY	Y	AUTO	Y	480 3Ø	IGNITION	1101
611	MAUMELLE WOODS	Ň	N	N	480 3Ø	IGNITION	1114
613	MURPHY DRIVE	N	AUTO	Y	460 3Ø	IGNITION	
614	NAYLOR	N	N	N	480 3Ø	IGNITION	1113
615	NEW BEDFORD	N	N	Ň	480 3Ø	IGNITION	1120
616	NORFOLK	N	N	N.	230 1ø	IGNITION	1119
617	ODOM/BLUE MOUNTAIN	N	N	N	230 1Ø	IGNITION	1114
618	OSAGE FALLS	Y	AUTO	N	230 3Ø	IGNITION	1115
619	OSAGE HILLS	N	MANUAL	N	230 3Ø	IGNITION	1115
620	PALASADES	N	N	N	480 3Ø	IGNITION	1113
621	PONCA	N	N	N	230 3Ø	IGNITION	1119
622	RIDGELAND	N	N	N	230 1Ø	IGNITION	1102
623	RIDGELAND/ODOM	N	N	N	230 10	IGNITION	1117
624	RIVER RUN	N	N	N	230 3Ø	IGNITION	1118
625	SEMINOLE EAST	Ŷ	AUTO	Y	460 3Ø	IGNITION	1033
626	SEMINOLE WEST	Y	AUTO	Y	230 10	IGNITION	1119
02/	TOWN CENTER	N	N	N.	∠ou 10	IGNITION	11170

		PUMP	TRANSFER			EXISTING
TREATMENT PLANT NAME	LOCATION	CONNECTION	SWITCH	GENERATOR	VOLTS	SCADA TYPE
FAULKNER LAKE INFLUENT	7400 BAUCUM PIKE	N	AUTO	Y	480 3Ø	IGNITION
FAULKNER LAKE BLOWER FACILITY	7400 BAUCUM PIKE	N	AUTO	Y	480 3Ø	IGNITION _
FAULKNER LAKE ADMIN BLDG	7400 BAUCUM PIKE	N	AUTO	Y	208V 240V	IGNITION
FAULKNER LAKE LAB BLDG	7400 BAUCUM PIKE	N	AUTO	Y	240∨ 480∨	IGNITION
WHITE OAK INFLUENT	6000 HEILMAN	N	Y	N	480 3Ø	IGNITION
WHITE OAK TREATMENT PLANT	6000 HEILMAN	N	N	N	480 3Ø	IGNITION
FIVE MILE INFLUENT	5601 E 54TH STREET	N	AUTO	Y	480 3Ø	IGNITION
FIVE MILE EFFLUENT	5601 E 54TH STREET	Ν	AUTO	Y	480 3Ø	IGNITION
MAUMELLE TREATMENT PLANT	425 HYMAN DRIVE	N	AUTO	Y	480 3Ø	IGNITION

Treatment Plant Emergency Response Connections

iv. Identify areas subject to building/private property backups.

NLRW utilizes trouble calls to initiate an investigation to determine areas subject to building/private property backups. A trouble call attributed to "high water" and resulting in slow draining fixtures or backups in buildings or property initiates a work order to the Civil Engineer. The Civil Engineer conducts an investigation to determine the cause of the backup and documents the need for corrective action. The Civil Engineer documents the need for a backwater valve and sends a letter to the property owner. A copy of the letter is given to the GIS Administrator for entry into the GIS database.

Following is a map identifying the addresses investigated in the calendar year for the need for backwater valves.



v. Public education – Expanded Program 2019

In 2012, NLRW expanded the Grease Reduction Program to include additional items to 'not' put down the drain and named the program "Maintain YOUR Drain." Expansion of the Grease Reduction Program was largely brought about by increased problems associated with so-called "flushable wipes."

During 2019 the mailers were all redesigned and are sent out periodically included with Central Arkansas Water monthly bills. The Nov/Dec issue of NLR Neighborhood News front page was entirely devoted to the campaign.

A summary of the activities conducted by the "Maintain YOUR Drain" staff, during the calendar year is attached, as well as copies of the new mailers.

Staff designed educational decals and had them installed on the Vac-cons and TV vans. The concept is to use the trucks as moving billboards and to put the message where the work is (e.g. A customer sees the Vac-con cleaning a sewer line and the sign on the side of the Vac-con says "Wipes clog pipes. Don't flush wipes!" or "Maintain YOUR Drain! Don't pour grease down the drain!")

North Little Rock Wastewater

Maintain YOUR Drain Program

(Educating the public on what "NOT" to put down the drain.)

Date	Group Name	Location	Approximate # of Attendees
01/26/19	CAC	6101 IFK Blud NI R AR 72116	25
01/28/19	New Life Christian	12506 Highway 165, NLR, AR 72117	25
04/04/19	Givens Company (apartments)	S complexes in NLR & Sherwood area	350
04/26/19	Tamberly MacIntyre	Jefferson Manor apartments	150
NOV/DEC 2019	NLR NEIGHBORHOOD NEWS	DISTRIBUTION TO CITIZENS	1800
		Total Individual Distribution of Information	2350

April-201961,500 Mailers were sent out with proper disposal information as related to wastewater.August-201961,500 Mailers were sent out with proper disposal information as related to wastewater.December-201961,500 Mailers were sent out with proper disposal information as related to wastewater.

School children are given bracelets with the North Little Rock Wastewater Logo and the message "Protect Our Water." Also can lids with North Little Rock Wastewater Logo and the message "Maintain your Drain" are given out with instructions on how to properly dispose of grease.

Informative brochures are handed out at all meetings with material on grease and pharmaceutical disposal.

Volume 6- Number 24

November/December 2019

NLR Neigh<mark>bor</mark>hood News

North Little Rock Wastewater Reminds You To Maintain Your Drain

What do you do with your used cooking oil and grease after you are done with it? Do you pour it down the drain? What about scraps from your plate? Do you put them down the garbage disposal? Fats, oils and greases solidify when cool; this is just one reason why you should consider never pouring grease or food down the drain or garbage disposal. After time, the grease can build up and cause blockages in sewer pipes. Blockages can lead to sanitary sewer overflows and can also cause the sewer to back up into homes. The proper way to dispose of grease, fats and oils is to pour them into

a container and freeze it. Once frozen, the container can be placed into the trash. For disposal of large amounts of cooking oil, contact North Little Rock Public Works at (501)371-8345.

You should never flush paper towels, baby wipes, facial wipes, and other "flushable" wipes down the toilet. These products do not break down like toilet paper and can eventually cause blockages in sewer pipes and result in costly repairs.

Flushing dental floss down the toilet might seem like it's not worth mentioning, but floss in the sewer system can do a lot of damage. Dental floss is a fairly tough and impermeable product that can wrap around sewer pump equipment and can cause serious damage. Used dental floss should be disposed of in the garbage.

Pharmaceuticals in wastewater have become an ever-increasing problem. Wastewater treatment plants are not designed to treat unused medications, hypodermic needles and cigarette butts. These items release undesirable and potentially damaging chemicals into the wastewater treatment system. Many drugs pass through treatment plants and make their way into surface, ground, and bodies of waters. Harmful chemicals may remain in the water and can potentially harm wildlife and aquatic life. There are more than 200

medical drop-box locations throughout the state and Arkansas law-enforcement agencies host Arkansas Prescription Drug Take Back Day events twice a year at various locations. NLR Courts building offers a drug drop off site. Check www.artakeback.org for more information.

If you have any questions regarding how to maintain your drain, contact North Little Rock Wastewater at (501)945-7186 ext. 117.

vi. Treatment plant stormwater runoff protection

Part of NLRW's effort to comply with treatment plant stormwater runoff protection included the addition of "Maintenance and Emergency Equipment Storage Facilities." This project included the addition of metal buildings to house maintenance and emergency response equipment.

This project also included the addition of a vehicle wash station, site grading and drainage improvements.

Section B.i provides additional information regarding this project.

- vii. Secure funding for Capital Improvement Projects
 - a. On November 28, 2012, NLRW closed on a \$21,000,000 loan with the Arkansas Natural Resources Commission. As of January 20, 2017, these loan funds have been fully expended.
 - b. On October 25, 2016, NLRW closed on a \$30,000,000 loan with the Arkansas Natural Resources Commission. Through December 31, 2018, North Little Rock Wastewater has spent \$10,786,227of the \$30,000,000 loan.
- viii. Point Repairs

NLRW added a fourth construction crew in 2016 to reduce response time for disconnects which were building up a backlog of work orders. This crew may also assist with point repairs and other excavation related repairs depending on the work load.

Outside services contractors may be used for certain repairs depending on work load, schedule and need for specialized services. Specialized services include repairs beneath the water table, deep excavations, repairs complicated by other structures, repairs involving large diameter pipelines, etc.

Following is a summary of repairs completed in the collection system requiring excavation:

A summary of point repairs completed by the NLRW Collection Systems Department is included in Appendix C. *End of Year Work Recap Report*.

Year	Point Repairs	<u>New</u> Manholes	New Line Segments	Disconnects	Repairs by Outside Services, Contractors	Total
2007	316	30	70	7	n/a	423
2008	280	17	8	21	n/a	326
2009	299	13	20	1	n/a	333
2010	289	24	7	2	n/a	322
2011	316	12	6	0	2	336
2012	337	22	6	1	1	367
2013	273	18	5	0	3	299
2014	332	11	10	0	0	353
2015	364	15	8	4	8	399
2016	381	26	7	66	6	486
2017	371	24	13	191	1	600
2018	357	34	14	185	0	590
2019	186	20	6	49	4	265

ix. Manhole Repairs

Following is a graph of manhole repairs completed in the collection system:

2. Civil Penalty Payment Summary

NLRW completed payment of a \$105,000 Civil Penalty on February 13, 2013.

3. Notifications of Deficiencies

CAO Notices of Deficiencies received from ADEQ: None (no. & date) NLRW response to Notice of Deficiencies: N/A (must be within 15 days)

Summary of NLRW actions to address deficiencies: N/A

4. Compliance Delays

Notifications of Compliance Delays submitted to ADEQ: None (no. & date) Length of Compliance Delay: N/A

Cause of Compliance Delay: N/A

Measures Taken to Minimize Delay: N/A

Timetable for Implementing Additional Measures: N/A

5. Certification

As required by the Order and Agreement, Paragraph 3, North Little Rock Wastewater certifies that we are complying with the ADEQ-approved Wastewater Master Plan.

Respectfully Submitted,

MZhill -

Marc E. Wilkins, PE Director North Little Rock Wastewater

APPENDIX

- A. Annual Overflows by Category
- **B. SSO Locations 2019**
- C. 2019 Year-to-Date Work Recap Report (Collection Systems Department)
- **D.** Collection System Rehabilitation

APPENDIX C

North Little Rock Wastewater Utility

2019 Year-To-Date Work Recap Report													
Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y T D
MANHOLE:													
Disconnects	0	0	0	0	0	0	0	0	0	0	0	0	0
Taps	0	0	1	1	3	0	0	1	0	1	0	0	7
Repairs	113	108	85	87	96	21		17	6	2	2	23	571
# of MH's Grouted	110	101	78	79	9/	20	9	26	23	34	22	23	622
Hoj Coais MH Denth (Ft/In)	0.0	00	00	0	0.0	0.0	42	104	30.0	33.0	44	40	214
# of Bass of Grout	0.0	0.0	0.0	0	0.0	0.0	4	35	4	20	23	17	103
POWER DRIVE:	-		-		-	_			-				
# of Ft Cleaned	7.941	9,447	3,176	1.960	5.283	1.782	1.386	1.079	2,653	7,344	9,467	8.269	59,787
PWR RODDER #1:		í.											
# of Ft Cleaned	1,133	3,510	0	599	1,402	0	136	0	0	0	0	0	6,780
REPAIR #1:													
Repairs	5	1	5	6	5	2	3	4	3	1	1	1	37
New Manholes	1	1	0	0	1	1	1	0	0	0	0	0	5
New Lines	0	0	0	0	0	0	1	0	0	0	0	0	1
Disconnects	0	0	0	0	0	0	0	0	0	0	0	0	0
Taps	1	0	0	12	0	2	0	0	0	0	0	0	4
DEDAID #2.	1/	20	1/	12	ő	3	3	Ó	9	0	3	3	121
RELAIN #2:	8	5	7	10	3	5	2	6	3	4	4	2	60
New Manholes	1	0	1	0	0	0	0	0	0	ч 0	1	2	5
New Lines	0	0	1	0	0	1	0	0	0	0	0	0	2
Disconnects	0	0	0	0	0	0	0	0	0	1	0	0	1
Taps	0	0	0	1	0	0	0	0	0	0	0	0	1
Miscellaneous	16	15	16	12	10	13	1	13	11	2	9	2	120
REPAIR #3:													s
Repairs	6	4	7	6	6	5	6	2	4	4	3	3	56
New Manholes	0	0	1	0	0	0	1	0	0	0	2	0	4
New Lines	0	0	0	0	0	0	1	0	0	0	0	0	1
Disconnecis	0	0	1	0	0	1	0	1	0	0	0	0	5
Miscellaneous	13	12	9	6	4	13	3	9	5	4	1	6	85
REPAIR #4.	15	12	,	-	-	15	9				1	Ű	05
Repairs	3	2	3	9	0	0	0	7	4	2	2	1	33
New Manholes	0	0	0	2	0	0	0	0	0	0	2	2	6
New Lines	1	0	0	1	0	0	0	0	0	0	0	0	2
Disconnects	15	9	5	12	3	0	0	0	0	0	0	3	47
Taps	0	0	0	0	0	0	0	0	1	0	0	0	1
Miscellaneous	12	17	22	26	22	0	117	56	15	17	9	5	318
TROUBLE:	240	0	0	0	1.60	176	0	210	٥	٥	٥	٥	07.5
# 0j Fi Cieanea Ston Line	240	0	0	15	150	3	3	7	2	0	10	6	8/3 80
Private Lines	37	40	37	54	37	18	13	17	14	36	15	28	346
Cave-Ins	3	7	4	9	3	2	2	12	7	2	3	2	56
Flooded Houses	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	62	38	64	71	64	73	79	68	43	49	64	35	710
Total Calls	111	93	114	149	109	96	97	104	66	96	92	71	1,198
VACCON #1:					20.054		01016	10.554				1.5.505	250 046
# of Ft Cleaned	19,847	20,690	18,200	25,489	30,975	23,322	34,316	19,772	24,298	26,889	18,370	17,782	279,950
VACCON #2:	22.005	16 10 1	20.007	24,000	21.454	22.204	7 070	2.021	22.462	05.500	21 200	17.104	268 500
# of Ft Cleaned	33,89/	10,494	28,637	24,988	21,475	25,384	7,978	3,831	35,462	25,799	31,398	17,456	208,799
# of Et Claused	20 512	40.01 6	47.000	22 411	15 7 7 7	22.674	26744	25.075	27 401	41.000	26.020	21.017	167 575
FOJ FI Cleaned	39,512	48,015	47,885	33,411	45,/67	32,6/4	30,/44	35,075	37,401	41,236	36,928	32,917	40/,565
# of Et Clamad	3 402	056	0	0	1 2 20	8 109	6 496	2 172	8 211	5 977	0	4 502	41.007
WACCON #5	3,493	930	U	U	0424	0,100	0,400	2,1/3	0,411	5,0//	0	4,000	41,027
# of Ft Claunad	25 003	24 045	24 834	22.051	31 620	10 316	27.065	20 001	16 301	31 181	28 403	25 552	288 451
TV #1	20,095	24,945	24,034	10,001	51,029	10,510	27,005	20,991	10,301	51,101	20,495	40,00	200,401
# of Ft	10 400	12.261	11 624	16 368	28 300	18 006	23 452	13 042	15 526	22.080	12.771	17.044	212 781
TV #2	17,777	100,001	11,024	10,000	20,000	10,300	20,702	10,094	10,040	,909	11,11	17,044	, ui (Ui
# of Ft	14,552	13,564	17,965	15,838	18,815	17,597	17,770	11,895	17,888	11,868	19,891	12,000	189,643

