

# NORTH LITTLE ROCK WASTE WATER UTILITY

February 6, 2018

Mr. Richard Healey
ADEQ Branch Manager, Water Division
5301 Northshore Drive
North Little Rock, AR 72118-5317

**RE: CAO LIS No. 10-218** 

Dear Mr. Healey:

On December 29, 2010, The North Little Rock Waste Water Treatment Committee (NLRW) entered into a Consent Administrative Order (CAO) with the overall goal of eliminating sanitary sewer overflows (SSOs). The CAO contained requirements that can generally be summarized in four main tasks: Masterplan, Sewer System Evaluation Survey (SSES), Capital Improvements Plan (CIP) and Remedial Measures Plan. A voluntary civil penalty was also assessed and payment was completed in accordance with the required schedule.

A Masterplan was completed in August 2011 which included a "Capacity, Management, Operations and Maintenance Self-Assessment Report", "Treatment Facilities Evaluations", "Pumping Station Design and Equipment Condition Adequacy Evaluation", "Flow Monitoring concurrent with rainfall data collection", "Hydraulic Model", and "SSES Recommendations."

NLRW's geographical information system was used to subdivide the collection system into sewersheds, and historical SSO data was used to prioritize the SSES fieldwork. Total SSES fieldwork completed 2012 through 2017 includes:

Smoke Testing

2,068,347 LF -

Manhole Inspections

8, 366 Ea.

**Dye Testing** 

328 Ea.

The NLRW has systematically worked through the CIP developed in the Masterplan 2011 adding projects as appropriate. Following is a summary of CIP projects and costs by category:

	<b>QUANTITY</b>	CONSTRUCTION (\$)
Treatment Plant Modifications	4 Ea.	\$11,620,966
In-situ Pipeline Rehabilitation	334,572 LF	\$25,900,961
Pump Station Modifications or Upgrades	6 Ea.	\$ 6,419,276
Miscellaneous Gravity Collection Improvements	13,719 LF	<u>\$ 4,796,835</u>
		\$48,738,038

Highlights of the Remedial Measures Plan are as follows:

<u>ACTIVITY</u>	<b>QUANTITY</b>
TV Crew Production increased 320%	483,594 LF/Yr.
Cleaning Crew Production increased 280%	2,041,119 LF/Yr.
Treatment Plant Generators Installed	7 Ea.
Pump Station Emergency Response Pump Connections	42 Ea.
Pump Station Generators Installed	28 Ea.
Pump Station SCADA Installations	68 Ea.
Public Education Presentations ("Maintain YOUR Drain")	5 to 8 /Yr.
Public Education Mailers ("Maintain YOUR Drain")	184,500/Yr.
Collection System Repairs Requiring Excavation	600 /Yr.
Manhole Rehabilitation (Interior repair and/or grout)	1,982 Manholes/Yr.

Implementation of remedial measures and capital improvements have resulted in a reduction in SSOs from 21.4 SSOs/100 miles in 2011 to 4.7 SSOs/100 miles of pipeline in 2017. Therefore, we respectfully request your consideration to terminate CAO LIS No. 10-218 based on the successful reduction of SSOs and on the corrective actions taken to fully comply with the CAO.

A copy of the "2017 End of Year Report" is attached for your review.

We are available to answer questions and/or make a presentation to ADEQ staff featuring details of the programs and corrective actions which have contributed to improvements in the NLRW collection and treatment systems.

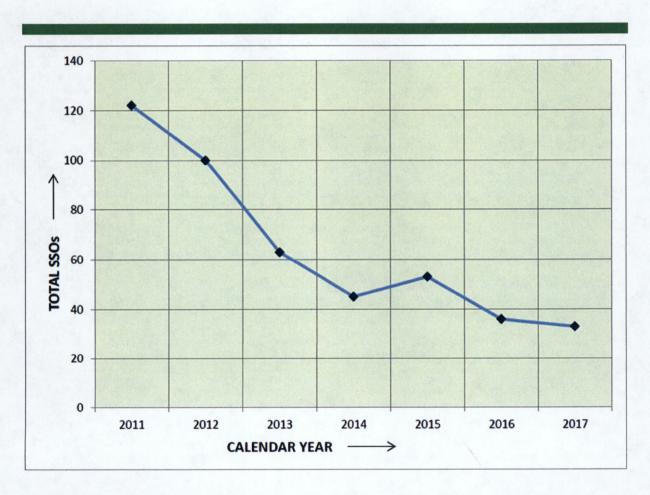
Sincerely,

Marc E. Wilkins, PE, Director

MEWILL

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

# 2017 End of Year Report



Consent Administrative Order LIS 10-218



## **PREFACE**

North Little Rock Wastewater (NLRW) submitted a progress report to ADEQ on June 22, 2017 documenting that all of the corrective actions listed in the Maumelle Water Management Corrective Action Plant (CAP), dated November 18, 2016, have been completed. As a result, ADEQ issued a response indicating that the CAP was closed, that "NLRW shall maintain the corrective actions taken to comply with the CAP," and that future progress in the Maumelle wastewater system may be reported in the NLRW Annual Report.

# North Little Rock Wastewater 2017 End of Year Report

# Consent Administrative Order LIS 10-218

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# North Little Rock Wastewater 2017 End of Year Report

# Consent Administrative Order LIS 10-218

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

In accordance with the requirements of Consent Administrative Order LIS 10-218 (CAO), Order and Agreement, Paragraph 3, Reporting, the eighth Annual Report was due and was submitted by February 1, 2018.

## 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.

# i. Treatment Plant Projects

FACILITY	PROJECT NAME	\$	% 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
	TOTAL\$	\$11,620,966		

# ii. Pipeline Rehabilitation Projects

PROJECT NAME	METHOD	LINEAL FT	\$	% COMPLETE	DATE
2012 Cured In Place (CIPP) Rehabilitation	CIPP	9,942	\$393,900	100%	08/31/12
2013 Cured In Place (CIPP) Rehabilitation	CIPP	34,808	\$1,614,620	100%	05/31/15
Lakewood Basin CIPP 2015 Rehabilitation	CIPP	29,502	\$1,327,905	100%	06/30/16
Lakewood Basin Pipe Bursting 2015 Rehabilitation	Pipe Bursting	24,634	\$1,849,561	100%	11/08/16
E. Levy Basin Pipe Bursting Rehabilitation 2016	Pipe Bursting	19,323	\$1,659,056	100%	05/19/17
Baring Cross Basin CIPP 2016 Rehabilitation	CIPP	22,832	\$1,747,836	89%	12/31/17
Baring Cross Basin Pipe Bursting 2016 Rehabilitation	Pipe Bursting	51,800	\$4,069,183	68%	12/31/17
W. Levy/212 Basin CIPP 2016 Rehabilitation	CIPP	26,359	\$1,642,023	0%	12/31/17
W. Levy/212 Basin Pipe Bursting 2016 Rehabilitation	Pipe Bursting	24,930	\$2,146,877	0%	12/31/17
Lower Riverside Interceptor	CIPP/SL	4,345	\$4,400,000	Design	12/31/17
South Levy/Indian Hills CIPP 2017 Rehabilitation	CIPP	47,323	\$2,250,000	Design	12/31/17
South Levy/Indian Hills Pipe Bursting 2017 Rehabilitation	Pipe Bursting	38,774	\$2,800,000	Design	12/31/17
	TOTAL	334,572	\$25,900,961		

# 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
TOTAL \$	\$6,419,276		

## 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		

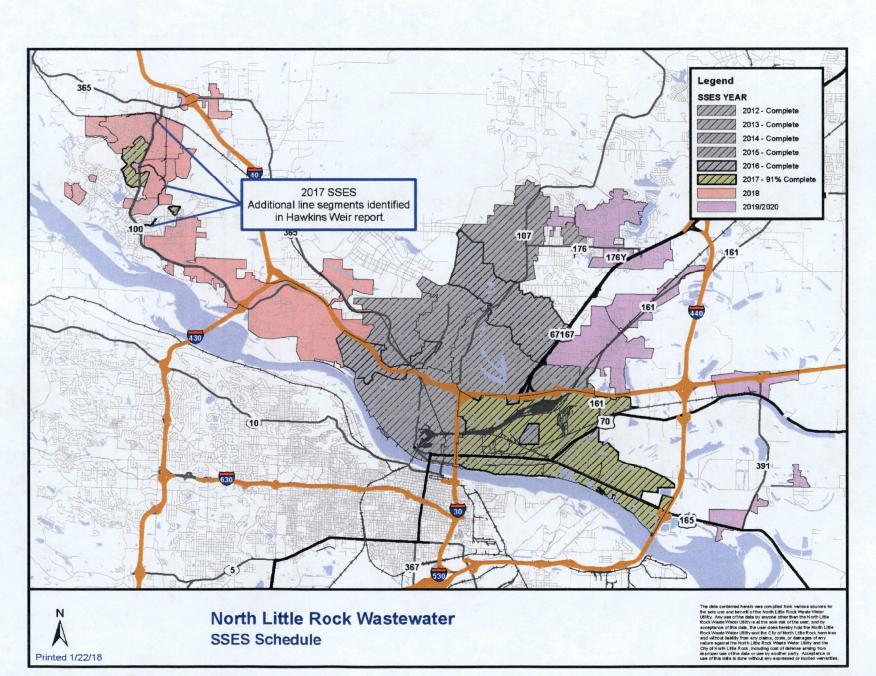
## C. Sewer System Evaluation Survey (SSES)

# Following is a summary of SSES fieldwork completed to date. SUMMARY OF SSES FIELDWORK

	Smoke Testing		Manhole Inspections		Dye Testing			CCTV		
Project Name	Quantity (LF)	Defects (EA)	1/1 (mgd)	Quantity (EA)	Defects (EA)	1/1 (mgd)	Quantity (EA)	Defects (EA)	I/I (mgd)	Quantity (L/F)*
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			1,993			44			483,594
TOTAL	2,068,347	3,523	4.77	8,366	6,447	3.957	328	215	5.936	2,290,108

<sup>\*</sup> System Wide

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	91%	12/2017
TOTAL	\$2,981,715		

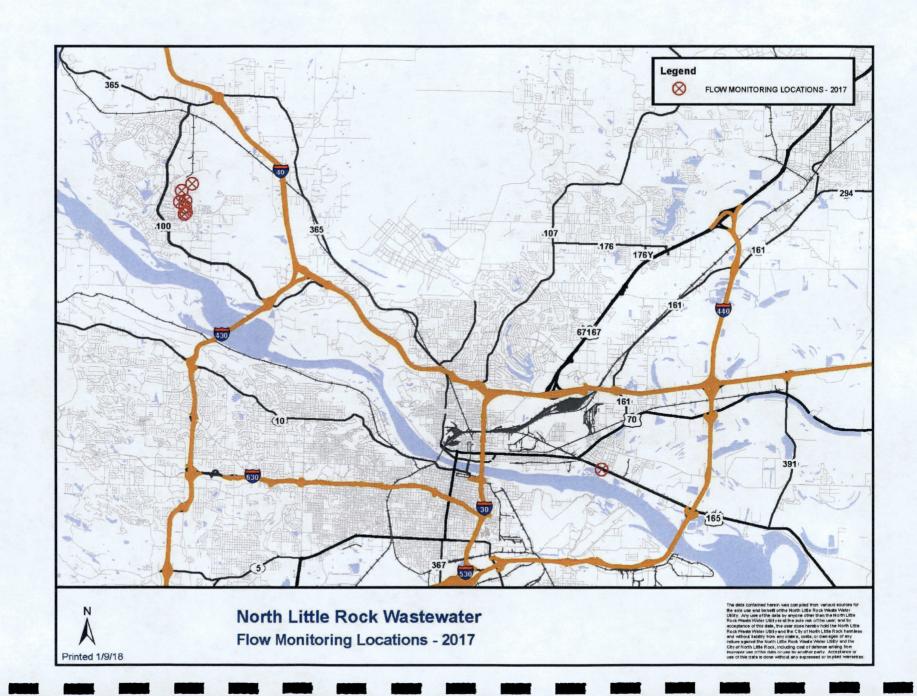


D. SSES, Pumping Station, Capacity Assessment, and Hydraulic Model Evaluation Report

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 non-capacity 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.

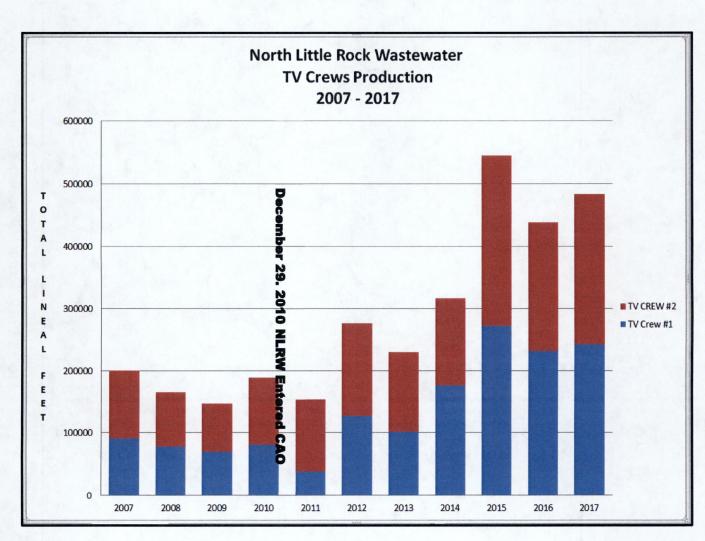


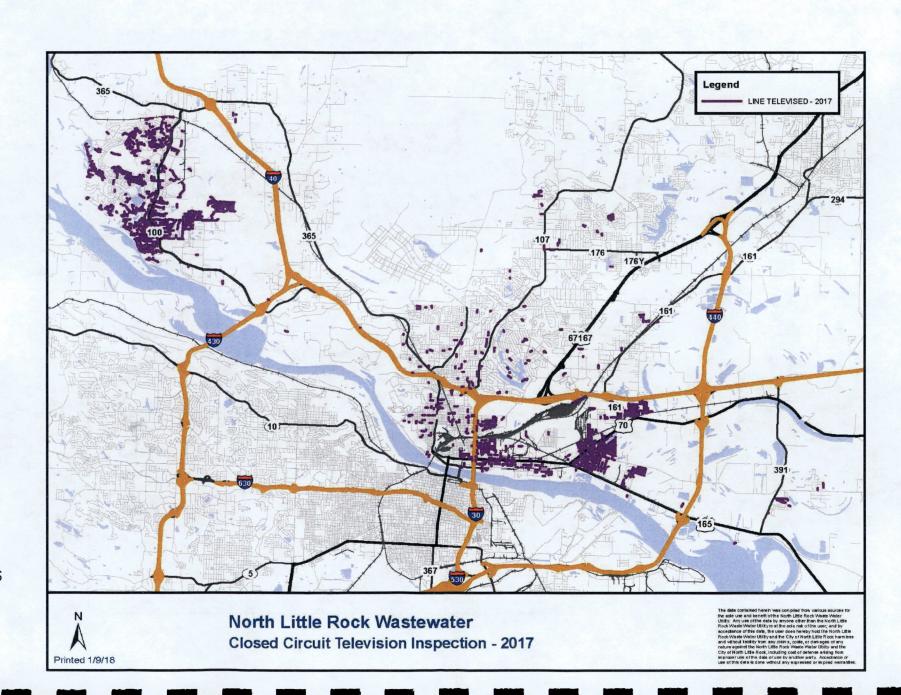
E. Collection System and Wastewater Treatment Plant Remedial Measures Plan

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

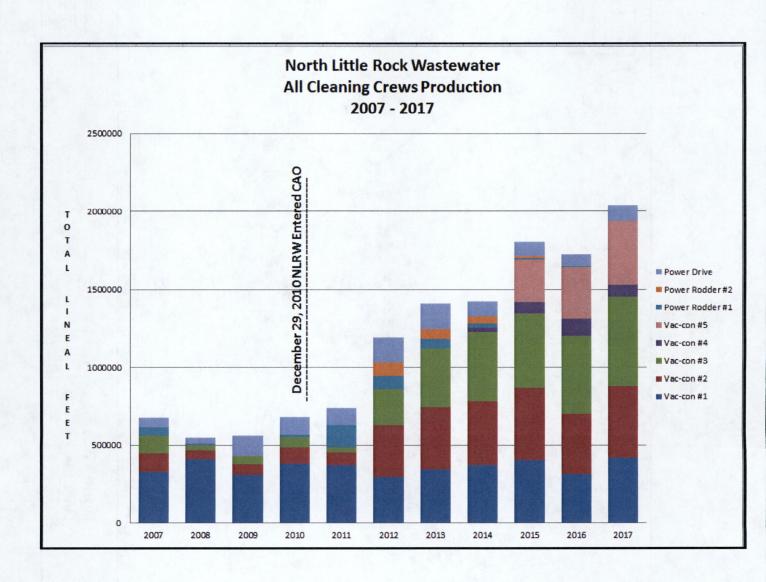
The remedial measures plan generally consists of measures involving existing equipment, personnel and practices which can be modified to reduce the occurrence of SSOs.

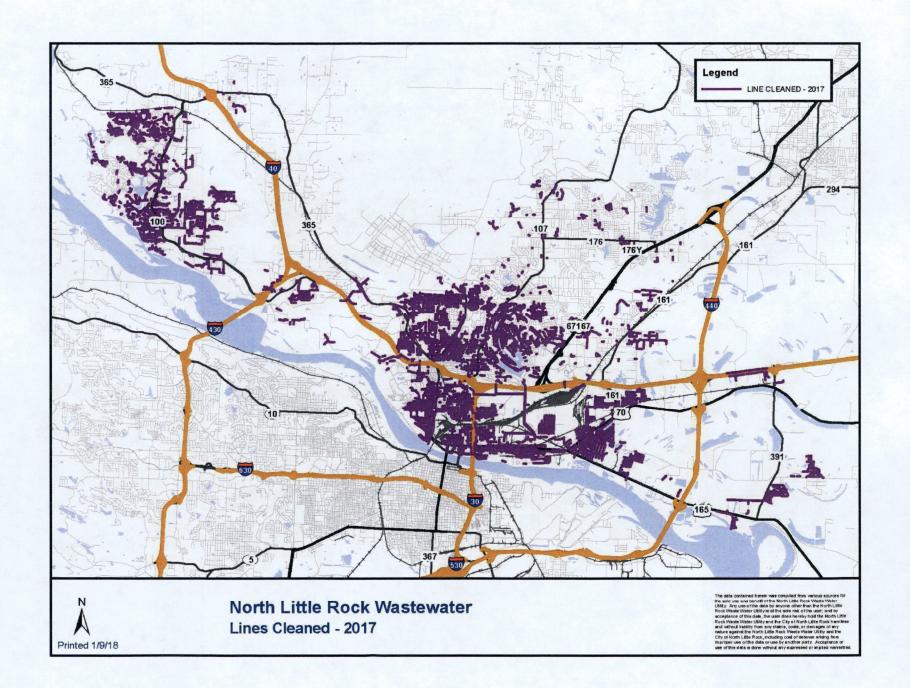
- i. Increase production of TV and cleaning crews
- a. The following graph and map document the efforts to increase production of the TV crews in targeted areas.





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





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 Crews
- 1 Power Rodder Crew
- 1 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.

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

### **Treatment Plant Emergency Response Connections**

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

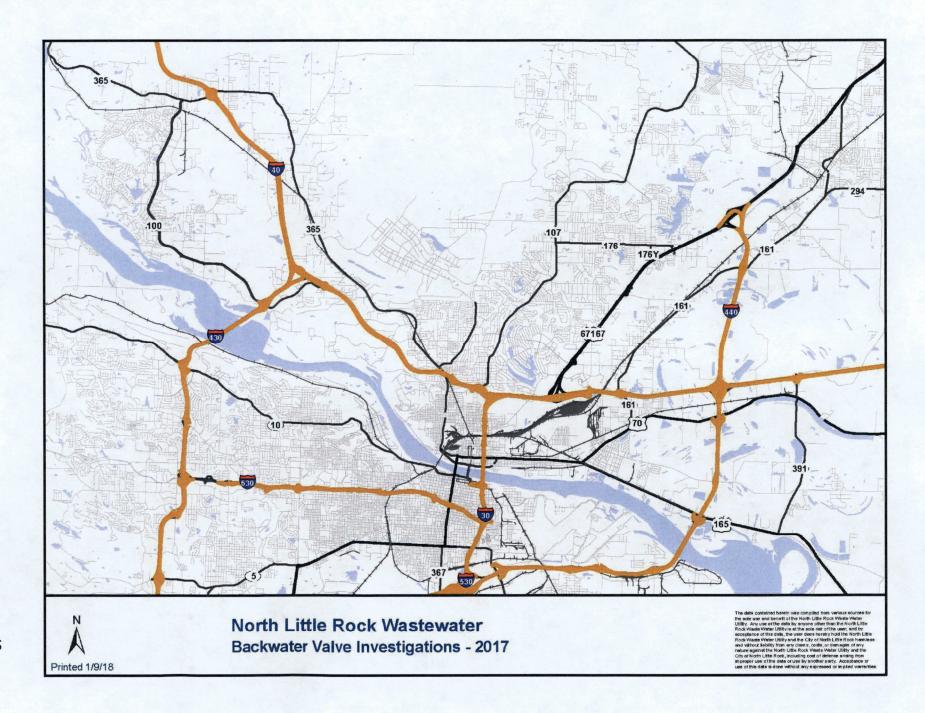
Yellow highlighted pump stations have auxiliary generators and transfer switches or Omnisite SCADA added in 2017.

PUMP ATION #	PUMP STATION NAME	PUMP CONNECTION	TRANSFER SWITCH	GENERATOR	VOL	TS	SCADA TYPE	SCAL
			SWITCH	GENERATOR		_		
402	BRIDGEWAY HOSPITAL #2	Y	ALITO	V	230	10	OMNISITE OMNISITE	308
403	CLAYTON CHAPEL	Y	AUTO	Y	240 240	3Ø	OMNISITE	308
405	DELTA LAWN	Y	AUTO	Y				
408	DIXIE (10TH ST)	Y	AUTO	Y	240	3Ø	OMNISITE	308
407	HWY 107	Y	AUTO	Y	240	3Ø	OMNISITE	308
408	LANSBROOK	Y	Manual		240	3Ø	OMNISITE	302
409	MARYLAND EAST	Υ	AUTO	Y	240	3Ø	OMNISITE	308
410	MARYLAND PLACE	Y			240	1Ø	OMNISITE	310
413	COCK-OF-THE-WALK (#2)	Y			480	3Ø	OMNISITE	111
414	MAYBELLINE	Y	AUTO	Y	480	3Ø	OMNISITE	302
415	MCALMONT	Y			240	3Ø	OMNISITE	310
416	MID-STATE	Y			240	3Ø	OMNISITE	310
417	OAKBROOK	Υ			480	30	OMNISITE	103
418	PINE TREE				240	1Ø	OMNISITE	310
419	SHILLOUT BAYOU		AUTO	Y	480	3Ø	IGNITION	
420	SHORTER COLLEGE	Y			240	3Ø	OMNISITE	311
421	BURNS PARK EAST				240	3Ø		N
422	BURNS PARK WEST				240	1Ø		N/
423	LAKEWOOD PLACE				230	1Ø	OMNISITE	311
424	I 440 INDUSTRIAL PARK	Y			208	3Ø	OMNISITE	302
425	AUSTIN LAKE	Y			480	3Ø	OMNISITE	311
426	FRONTIER DR MORGAN	Y	AUTO	Y	480	3Ø	OMNISITE	311
427	MARCHE-MORGAN	Y		THE PLANT	480	3Ø	OMNISITE	308
429	BAUCUM INDUSTRIAL	Y			208	3Ø	OMNISITE	302
430	WILCOX	Y	AUTO	Y	480	3Ø	OMNISITE	302
431	QUAPAW	Y	AUTO	Y	240	3Ø	OMNISITE	302
431	HWY 365SHERMAN RD	Y	AUTO	Y	480	3Ø	OMNISITE	308
	GAP CREEK	Y	AUTO	Y	240	3Ø		
433			AUTO				OMNISITE	308
434	HARRIS INDUSTRIAL PARK	Υ			480	3Ø	OMNISHE	302
435	BURNS PARK RV PARK				240	10		N
436	BURNS PARK LANDSCAPING				240	1Ø		N
437	BURNS PARK SOUTH				240	10	Manager Street Street	N
438	HILL LAKE		AUTO	Y	480	3Ø	OMNISITE	302
439	BURNS PARK SOCCER FIELDS				230	1Ø		N
440	COLLINS INDUSTRIAL PARK	Υ	AUTO	Y	480	3Ø	OMNISITE	305
441	COUNTS MASSIE	Y	AUTO	Y	480	3Ø	OMNISITE	308
442	CHAPEL RIDGE	Υ			240	3Ø	OMNISITE	305
443	RIXIE PUMP -HWY 161	Y	AUTO	Y	480	3Ø	OMNISITE	305
444	RIXIE PUMP-LUCKY DR.	Υ	AUTO	Y	480	3Ø	OMNISITE	305
445	RIXIE PUMP- TRAMMEL RD	Y	AUTO	Y	480	3Ø	OMNISITE	305
446	RIXIE PUMP-RIXIE RD- RR TRACK	Y			480	3Ø	OMNISITE	305
447	CYPRESS CROSSING	Y	AUTO	Y	480	3Ø	OMNISITE	302
448	CRYSTAL BAY	Y			480	3Ø	OMNISITE	308
449	TRAMMEL ESTATES	Y			240	10	OMNISITE	305
450	EUREKA GARDEN & 46TH	Y	AUTO	Y	240	3Ø	OMNISITE	305
451	EUREKA GARDEN RD	Y	AUTO	Y	240	3Ø	OMNISITE	305
452	EUREKA GARDEN & JUDY LANE	Y	Manual		240	3Ø	OMNISITE	305
453	FAULKNER CROSSING 5	Y	AUTO	Y	480	3Ø	OMNISITE	302
601	BOURIES CROSSING 5	Т	AUTO	T. Carlotte	230	10	OMNISITE	107
			AUTO	<b>Y</b>				
602	C.C. BALLFIELDS	T	AUTO	The state of the s	480	3Ø	OMNISITE	100
603	COUNTS MASSIE #2				230	3Ø	OMNISITE	110
604	DIAMOND POINT				480	3Ø	OMNISITE	112
605	DURANGO				460	3Ø	OMNISITE	111
606	HIGH SCHOOL				480	3Ø	OMNISITE	111
607	LAWRENCE				230	1Ø	OMNISITE	110
608	MARANES				230	10	OMNISITE	110
609	MASTERS PLACE				230	1Ø	OMNISITE	110
610	MAUMELLE VALLEY	Υ	AUTO	Y	480	3Ø	OMNISITE	110
611	MAUMELLE WOODS				480	3Ø	OMNISITE	111
613	MURPHY DRIVE		AUTO	Y	460	3Ø	Wonderware	
614	NAYLOR				480	3Ø	OMNISITE	111
615	NEW BEDFORD		AUTO	Y	480	3Ø	OMNISITE	112
616	NORFOLK				230	1Ø	OMNISITE	111
617	ODOM/BLUE MOUNTAIN				230	10	OMNISITE	111
	OSAGE FALLS				230	3Ø	OMNISITE	111
618			Manual					
619	OSAGE HILLS		Manual		230	3Ø	OMNISITE	111
620	PALISADES				480	3Ø	OMNISITE	111
621	PONCA				230	3Ø	OMNISITE	111
622	RIDGELAND				230	1Ø	OMNISITE	110
623	RIDGELAND/ODOM				230	10	OMNISITE	111
	DIVED DUN				230	3Ø	OMNISITE	111
624	RIVER RUN				200	UL		
624 625	SEMINOLE EAST	Υ	AUTO	Y	460	3Ø	OMNISITE	103

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

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

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

Staff designed educational decals and had them installed on the Vaccons 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 1	<b>Nastew</b>	ater
INFILIE		DIN N	IV A SIEWW	

# Maintain YOUR Drain Program

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

			Approximate
Date	Group Name	Location	# of Attendees
04/10/17	Central Arkansas Christian	10900 N Rodney Parham Road, Little Rock, AR	24
05/10/17	Crystal Hill Elementary	5001 Northshore Dr, North Little Rock, AR	112
09/06/17	Oakbrooke Elementary	2200 Thornhill Dr, Sherwood, AR 72120	72
09/28/17	Oak Grove Elementary	5703 Oak Grove Rd, North Little Rock, AR 72118	52
10/16/17	Silver Shamrocks-Retired Group	211 W 19th St, North Little Rock, AR 72114	15
		Total Attendees 2017	275

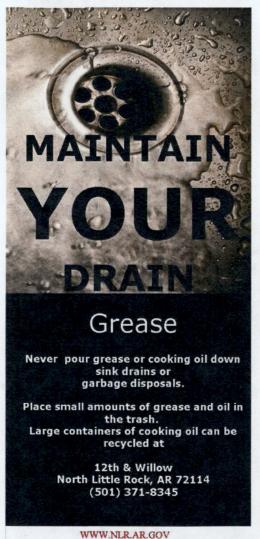
- April-17 61,500 Mailers were sent out with information on how to dispose of grease properly. It also contained information on what to not put down the drain.
- Aug-17 61,500 Mailers were sent out with information on how to dispose of grease properly. It also contained information on what to not put down the drain.
- Dec-16 61,500 Mailers were sent out with information on how to dispose of grease properly.

  It also contained information on what to not put down the drain.

In addition, children at the schools were given bracelets with the North Little Rock Wastewater Logo and a message that reads "Protect Our Water" as a reminder of how the dangers of improper grease disposal can harm our environment. Informative brochures are handed out at all meetings with material on grease and pharmaceutical disposal.

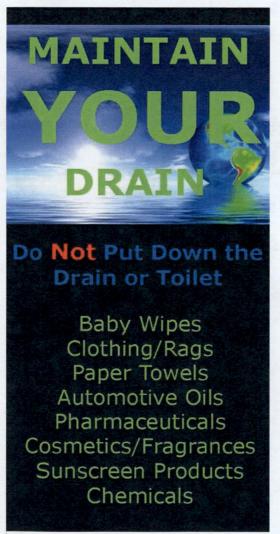


501-945-7186





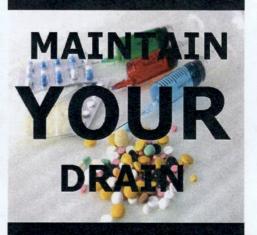
501-945-7186



WWW.NLR.AR.GOV



501-945-7186



## **Pharmaceuticals**

Do NOT flush them down the toilet.

Mix old pharmaceuticals with used coffee grounds or kitty litter.

Place them in a sealable container and throw them in the trash.

OR

Contact local law enforcement for community take-back programs.

WWW.NLR.AR.GOV





## 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, 2017, North Little Rock Wastewater has spent \$6,930,011 of the \$30,000,000 loan.

## viii. Point Repairs

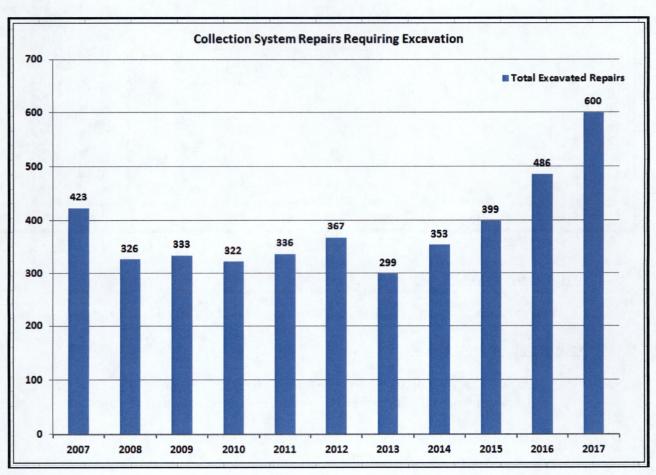
NLRW added a fourth construction crew in 2016 to reduce response time for disconnects which were building up a backlog of work orders. This crew may also assist with point repairs and other excavation related repairs depending on the work load.

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:

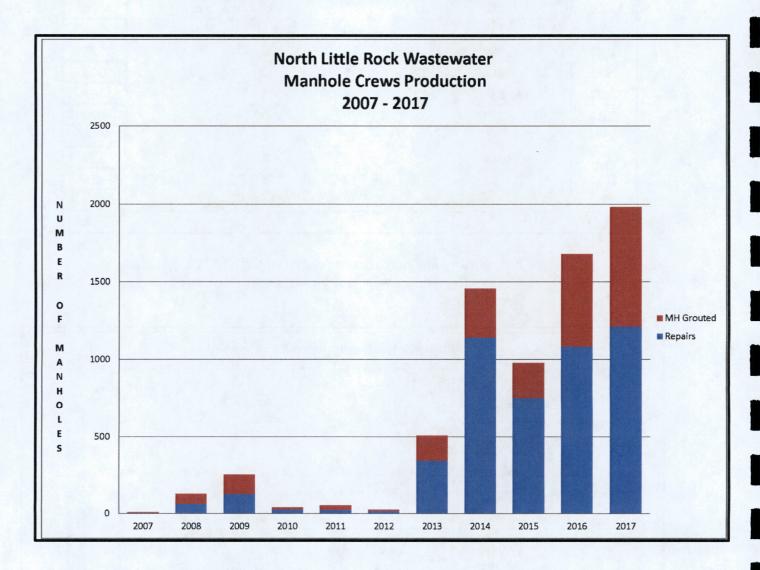
		New	New Line		Repairs by Outside	
Year	<b>Point Repairs</b>	Manholes	Segments	Disconnects	Services Contractors	TOTAL
2007	316	30	70	7	n/a	423
2008	280	17	8	21	n/a	326
2009	299	13	20	1	n/a	333
2010	289	24	7	2	n/a	322
2011	316	12	6	0	2	336
2012	337	22	6	1	1	367
2013	273	18	5	0	3	299
2014	332	11	10	0	0	353
2015	364	15	8	4	8	399
2016	381	26	7	66	6	486
2017	371	24	13	191	1	600
						2,840

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



## 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,

Marc E. Wilkins, PE

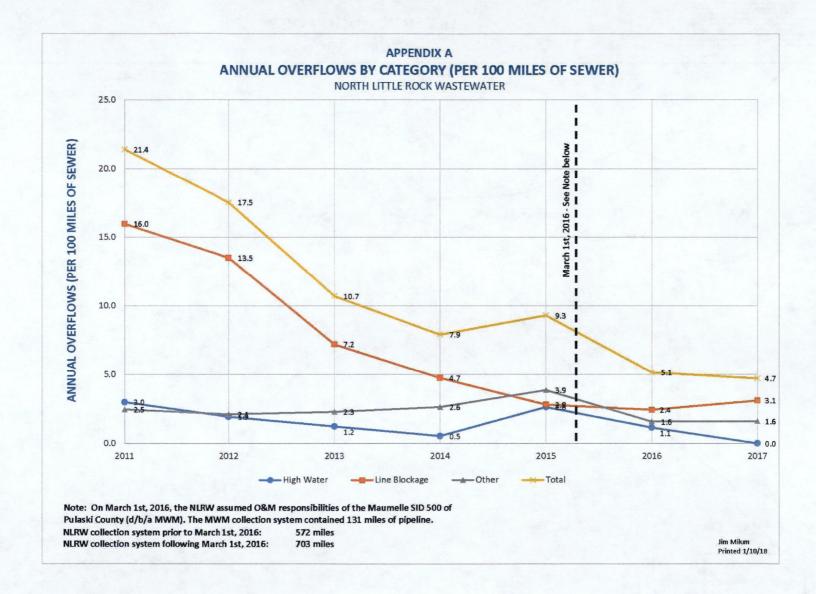
MENTEL

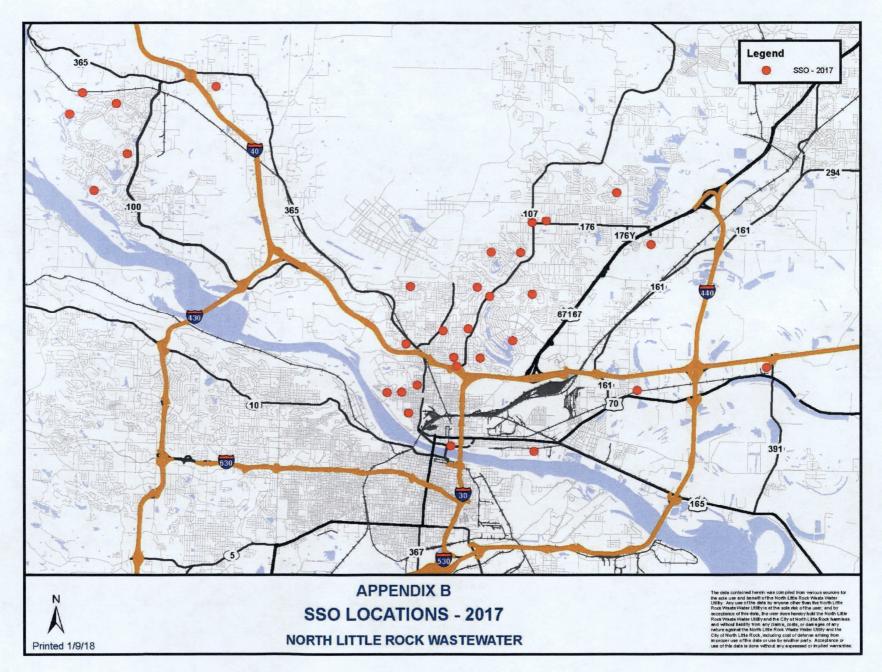
Director

North Little Rock Wastewater

## **APPENDIX**

- A. Annual Overflows by Category
- B. SSO Locations 2017
- C. 2017 Year-to-Date Work Recap Report (Collection Systems Department)
- D. Collection System Rehabilitation





# APPENDIX C

## North Little Rock Wastewater

2017 Year-To-Date Work Recap Report													
Crews:	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nev	Dec	YTD
MANHOLE:		RUBER					STEEL STEEL				STATE OF	SERVICE SERVIC	THE R.
Disconnects	0	0	0	0	0	0	0	0	0	0	0	0	0
Taps	0	0	0	0	0	0	0	0	0	0	2	0	2
Repairs	64	81	98	0	77	57	54	160	227	147	164	81	1,210
# of MH's Grouted	30	68	47	47	7	36	47	93	9	152	158	78	772
#of Coats	0	0	0	0	0	0	0	0	0	0	0	0	0
MH Depth (Ft/In)	0.0	6.0	0.0	0	37.0	90.5	26.5	57.0	50.0	6.0	25.5	0.0	299
# of Bags of Grout	6	5	10	0	20	25	6	13	27	41	19	10	182
POWER DRIVE:													
# of Ft Cleaned	6,756	15,882	6,735	7,783	4,863	3,701	10,413	11,751	8,876	9,051	7,859	8,756	102,426
PWR RODDER #1:			MEET	CARLES				NA THE					
# of Ft Cleaned	0	0	0	0	0	0	0	0	0	0	0	0	0
REPAIR #1:			200										
Repairs	5	8	15	10	9	4	4	8	11	3	6	1	84 12
New Manholes New Lines	1 1	0	0	0	1	2	3 2	2	0	1	1	1	9
Disconnects	0	0	1	0	0	0	0	0	0	0	0	0	1
Taps	0	0	2	1	0	1	1	2	2	1	0	0	10
Miscellaneous	2	4	9	6	3	0	5	2	8	0	3	0	42
REPAIR #2:		THE			AND THE		7 7 7 1 7		PAN AFR				THE REAL PROPERTY.
REPAIR #2.	17	15	11	14	8	8	10	13	13	11	8	9	137
New Manholes	0	0	0	0	0	0	0	0	0	0	0	0	0
New Lines	0	0	0	0	0	0	0	0	0	0	0	0	0
Disconnects	0	1	0	0	0	0	1	0	0	0	0	1	3
Taps	1	0	0	1	2	0	3	1	0	0	0	2	10
Miscellaneous	8	4	3	10	3	9	5	10	1	0	1	3	57
REPAIR #3:													
Repairs	9	11	11	12	7	4	8	4	2	7	3	2	80
New Manholes	1	0	0	0	0	2	0	1	1	3	4	0	12
New Lines	0	0	0	0	0	0	0	0	0	0	3	0	3
Disconnects	0	1	0	0	0	0	0	0	0	0	0	0	1
Taps	0	2	2	0	1	2	0	0	0	0	0	0	7
Miscellaneous	0	17	8	7	5	4	3	1	1	1	0	3	50
REPAIR #4:				<del>法学</del> 学					NAME OF BRIDE				<b>EXCESSION</b>
Repairs	4	7	9	3	13	4	5	6	5	6	4	4	70
New Manholes	0	0	0	0	0	0	0	0	0	0	0	0	0
New Lines	25	0 15	10	10	13	13	10	0 14	24	0 24	10	18	186
Disconnects Taps	0	0	0	0	0	1	0	0	0	0	0	0	1
Miscellaneous	1	1	9	3	7	15	4	6	2	4	2	4	58
TROUBLE:			A STATE		E TANK		A PARTY OF THE	A SALES	SAME	THE REAL PROPERTY.	Alticals.		
# of Ft Cleaned	1,801	815	572	511	773	574	0	130	80	107	1,222	399	6,984
Stop-Ups	50	40	47	31	39	7	22	25	32	31	39	29	392
Private Lines	33	31	33	21	30	23	17	21	21	20	26	19	295
Cave-Ins	6	1	3	7	11	1	2	0	4	1	4	1	41
Flooded Houses	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	39	43	48	46	53	52	61	72	45	58	44	25	586
Total Calls	97	83	99	81	103	83	84	96	81	89	87	54	1,037
VACCON #1:													
# of Ft Cleaned	37,222	36,816	40,641	37,587	36,029	32,035	35,929	44,220	35,343	33,068	27,134	21,875	417,899
VACCON #2:	22.22	20.22		10.000	45.55	40.00	11.515	20.111	24.222	45.050	24 221	17.000	450 (0)
# of Ft Cleaned	22,978	39,994	41,972	49,039	45,762	43,881	44,740	39,641	34,223	45,273	34,201	17,980	459,684
VACCON #3:	50.000		46.100	45.100	60 100	21.000	10.000	50.515	24 - 22 -	60.244	46.000	00.500	F75 202
# of Ft Cleaned	50,961	45,546	46,199	45,189	62,409	31,999	58,888	50,548	54,650	60,244	46,089	22,580	575,302
VACCON #4:		EX LANGE	ALC: N	PHERMA	THE REAL PROPERTY.	STATE OF THE PARTY.	BELLEVI					AL COL	THE PARTY OF
# of Ft Cleaned	17,567	0	10,715	927	12,822	25,010	1,520	5,139	0	1,517	0	1,976	77,193
VACCON #5:		THE REAL PROPERTY.	THE REAL PROPERTY.	ALC: N	FRE SE			NEW ST				THE REAL PROPERTY.	
# of Ft Cleaned	27,671	22,319	43,157	29,529	27,902	41,854	42,686	41,658	35,078	35,338	31,504	29,919	408,615
T V #1	A 15 C. 15	TESTAL S				SECOND 1		100		4800		25-525	
# of Ft	19,511	21,420	24,657	14,535	21,301	18,530	21,850	29,761	25,152	19,697	15,136	11,220	242,770
T V #2	型医水法						aver.		No section of			MAN SEV	
# of Ft	18,483	9,151	21,477	19,663	22,210	28,528	26,824	26,461	22,794	20,167	13,627	11,439	240,824

