CONSENT DECREE YEAR TWO

MAY 13, 2015 to MAY 12, 2016

ANNUAL REPORT

JULY 8, 2016

CERTIFICATION

I certify under penalty of law that this document and all attachments 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 manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

7/8/2016

Autumn Permenter, P. E.
Assistant City Engineer
City of Shreveport

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EXECUTIVE SUMMARY – CONSENT DECREE YEAR TWO

May 13, 2015 to May 12, 2016

The City of Shreveport began working to meet requirements of the Consent Decree in 2010 before negotiations were finalized and the official Consent Decree document was fully executed and filed establishing the Effective Date of May 13, 2014.

The City met all deadlines during Consent Decree Year One, often completing work and submitting reports before the deadlines.

In Consent Decree Year Two, the City, and the sewer system in particular, faced considerable challenges caused by Red River flooding. When the Red River overflows its banks, high water backs up in local bayous and Cross Lake. Flood waters increase infiltration and inflow into the collection system and increase flows at the Waste Water Treatment Plants. The flooding was so severe that the Governor of Louisiana declared a state of emergency.

Once again the City met all specific deadlines in Consent Decree Year Two and continued working to complete work elements prior to deadlines. Work on both SSA Phase 2 and SSA Phase 3 was begun early to allow early completion of SSA Reports and SSA RMP Reports and thereby allow more time for the design and construction of improvements.

Design of projects in SSA Phase 1 RMP continues and the first 5 projects were bid in CD Year Two. Construction of the first 3 projects began in CD Year Two. Utility coordination and planning improved considerably over the course of CD Year Two.

The City has maintained and expanded the project website – www.cleanwatershreveport.com – which contains extensive information concerning the Consent Decree program as well as other Water and Sewer capital improvements. This site includes project schedules and the location of active construction projects. The website also contains the documents which are part of the Public Document Repository (PDR). Citizens can access PDR documents without having to travel to City Hall. A listing of documents on the website and a screen shot of the document page of the website are included in Attachment 1. Information on the City's expanded public outreach efforts is also included in Attachment 1.

CONSENT DECREE YEAR TWO (May 13, 2015 to May 12, 2016)

Year Two Activities

The City of Shreveport met all Consent Decree Year Two deadlines shown below.

1) City shall submit a SSA Phase 1 Report within 14 months of the Effective Date of the Consent Decree (07/12/15). The SSA Phase 1 Report was submitted to EPA Region 6 and LDEQ on April 22, 2015.

2) City shall submit a Remediation Measures Plan Report [RMP] for SSA Phase 1 within 16 months of the Effective Date of the Consent Decree (09/12/15). The Remediation Measures Plan Report for SSA Phase 1 was submitted to EPA Region 6 and LDEQ on September 9, 2015.

3) City shall submit a Capacity Assessment Report [CAR] within 22 months of the Effective Date of the Consent Decree (03/12/16). The Capacity Assessment Report was submitted to EPA Region 6 and LDEQ on March 9, 2016.

4) City of Shreveport shall submit an Annual Report within 14 months after the Effective Date of the Consent Decree (07/12/15) demonstrating that the City is implementing the remedial measures required under the Consent Decree in an adequate and timely manner. The Annual Report for Consent Decree Year One was submitted to EPA Region 6 and LDEQ July 10, 2015.

In addition to specific deadlines there are required activities which continue in subsequent years.

1) Copies of the Consent Decree are distributed to contractors who are new to the Consent Decree program.
2) The City continues root control efforts by renewing the annual root control contract and directing root control efforts to those segments of the collection system where roots have been identified as a cause of blockages.
3) A combined effort by City crews and the SSA contractor cleaned 986,429 feet of gravity lines. This amount comprises approximately 18.7 % of the collection system and exceeds the CD requirement of 15%.

The City continues to work with the SSA contractor to locate and access all sewer system assets which are shown in the City GIS system. Some of these assets have been abandoned or removed over the years. The SSA contractor also located and inspected assets which had been added to the sewer system but not recorded in the GIS system.

The City of Shreveport traveled to EPA Region 6 twice during Consent Decree Year Two to update EPA staff on progress in completing the remedial measures required by the Consent Decree. Those meetings were held October 21, 2015 and April 28, 2016 and included frank discussions of the challenges of meeting the requirements of the Consent Decree. Notes documenting those meeting are included in Attachment 5.

Design, Bidding and Construction of Remediation Measures Projects in SSA Phase 1.

The City of Shreveport, prior to the start of Consent Decree Year Two, evaluated Statements of Qualifications from engineering firms to select firms to perform design services for the remediation measures projects in the SSA Phase 1 area (Cedar Grove basin). The selection process took place before projects were defined. The City started this process early to address the time required to work through the City's selection and contract process. The City selected 4 firms for the 5 Master Services Agreement (MSA) contracts – 1 firm was awarded 2 contracts.

The Remediation Measures Plan Report for SSA Phase 1 identified 89 individual projects. Rehabilitation work was aggregated by geographic location and type of work. While working with the MSA design firms and potential contractors, the City's Program Manager, CDM Smith, consolidated the 89 original projects into 55 individual projects. As design work progressed and the first projects were bid, the original 89 projects were further consolidated into 29 individual projects.

The amounts bid for the first 5 projects were an average of 30% greater than the design engineer's estimated construction costs. Alternate technologies and construction methods are being considered in order to reduce construction costs and construction time. Schedules for RMP Phase 1 projects are included in Attachment 4.

The City implemented the first phase of Cityworks for its asset management software in January of 2016. The initial implementation included the City's Field Operations division. This program will allow staff to better track repair information including location/asset, cost of repair etc. SSO information is also input into Cityworks and can be shared with the City's Environmental Services division. This information includes all categories of SSO's including those caused by issues with City infrastructure as well as private building backups not caused by issues with City infrastructure.

CAPACITY, MANAGEMENT, OPERATIONS AND MAINTENANCE [CMOM] PLAN

The Consent Decree required that Shreveport prepare and certify a CMOM Plan within 12 months of the Effective Date of the Consent Decree (05/12/15). The certified CMOM Plan was submitted to EPA April 22, 2015. As reflected in the previously submitted CMOM Plan, all procedures and programs required in Section 51 of the Consent Decree have been implemented.

Shreveport had in place some elements of the CMOM Plan, including an extensive and effective Fats, Oils, and Grease (FOG) Program. The City is procuring equipment and hiring staff to augment enforcement of the FOG Program.

Standard Operating Procedures [SOPs] were reviewed and updated, and needed SOPs were created and vetted. All SOPs that existed were reviewed with department personnel to determine if the SOP accurately described current operational practices. In most cases the SOPs were created some years ago and operations had changed. These SOPs were modified to reflect current operational practices.

Many of the existing SOPs had been created to address a particular problem that had occurred. After a thorough evaluation of SOPs and discussions with operational personnel, new SOPs were drafted to provide a more complete set of SOPs. Procedures were set in place to review SOPs on an annual basis and to modify them as necessary and add additional SOPs as required.

The requirement that 15% of the WCTS gravity sewer pipe lines be cleaned annually was met through the activities of City crews and the contractor performing the SSA field work. 986,429 feet of the WCTS gravity sewer lines were cleaned and this represents approximately 18.7% of the WCTS gravity sewer lines.

Meetings were held with the Sewer Lift Station department staff, Field Operations department staff, and Pretreatment department staff. Each person attending was provided a copy of the SOPs which apply to their department. It became obvious during the meetings that a number of staff members were not familiar with the SOPs. Additional meetings will be conducted to review SOP contents, the impact on day to day department activities, and the importance of implementing the SOPs.

The SSO Reporting SOP in the CMOM was written in anticipation of a new discharge permit with more stringent reporting requirements. The new permit has not been issued and the requirements of the SOP has proven to implement quickly. The following language was added to the SOP:

(e) Investigation of Cause of SSO

(i) Investigation of the cause of an SSO, including the investigatory steps noted above, is required as soon as practicable but no later than 24 hours after notice of the SSO. Where the cause of

an overflow is not known or determined based on initial investigatory steps on site, CCTV of the impacted sewer segment, if determined to be feasible and potentially beneficial, may be utilized in an effort to determine the cause.

(ii) For SSOs determined to be caused or contributed to by grease obstruction, written notice of such, containing all pertinent information about the SSO including location, time and duration, shall be provided immediately to the Pretreatment Section of the Department of Engineering and Environmental Services (by fax, at 318.673.6588), and the Pretreatment Section shall, as soon as practicable thereafter, conduct an investigation of potential upstream sources.

Field Operations Department restructured field crews into separate water crews and sewer crews. This change was made late in CD Year Two. Field Operations SOPs will be modified to reflect this change in CD Year Three and will be reported in the next Annual Report.

SANITARY SEWER OVERFLOW (SSO) ANALYSIS

The Consent Decree requires an analysis of Sanitary Sewer Overflows (SSO) for a 24 month rolling period. Because we are at the end of Consent Decree Year Two (May 13, 2015 to May 12, 2016), the first 12 months of data is derived from the prior 12 month period - Consent Decree Year One (May 13, 2014 to May 12, 2015). Tables of SSO data for both Year Two and Year One are included in this report in Attachment 2.

In the 12 month period of the Consent Decree Year One there were a total of 180 SSOs recorded. In Consent Decree Year Two there were 231 SSOs recorded.

These numbers reflect a 28 percent increase in SSOs reported. Year Two continued a period of studies and inspections, but included few activities that would reduce the number of SSOs. There were also instances of the SSA contractor identifying locations of collapsed pipe or open manholes which were reported as emergency repairs. These activities were not numerous enough to result in a significant reduction of SSOs. There are numerous factors which affect the number of SSOs in the collection system, including something as basic as the amount of rainfall. Year Two SSO total was increased by the near record Red River flooding and 100 year rainfall events.

Another factor in the increase in reported SSOs is that the City has placed a new emphasis on reporting ALL SSOs. The importance of reporting all SSOs has been stressed to all staff members. Lack of standardization in reporting of SSOs continues to handicap the analysis of SSO data. The City has

implemented procedures to standardize SSO reporting and efforts continue to standardize SSO reporting.

The 180 SSOs in Consent Decree Year One resulted in 159,000 gallons recovered and 200,500 gallons not recovered.

The 231 SSOs in Consent Decree Year Two resulted in 1,490,000 gallons recovered, reflecting increased efforts by City crews to contain and recover SSO flows and 974,000 gallons not recovered. An increased emphasis on estimating quantities recovered and lost will be part of Consent Decree Year Three. Estimating quantities in Year Two was handicapped by flood events and unusually heavy rainfall events.

Once again it is difficult to draw conclusions based on the data reported above.

During development of the CMOM Plan, the SSO Response Plan had been reviewed and improved and had been implemented with the submittal of the CMOM Program to EPA. The improved SSO Response Plan resulted in more consistent reporting of SSOs and associated data. However, the SSO Response Plan exceeded the requirements of the City's NPDES permits and proved to be very difficult to implement consistently. The SSO Response Plan has been modified to allow consistent reporting of all SSOs.

The table which follows breaks down the SSO numbers by cause of the SSO. Some interpretation of the data was required due to inconsistent historical reporting of SSOs. Use of the improved SSO Response Plan and Cityworks software will provide more consistent data and allow more rigorous analysis of the data.

During the development of the CMOM Plan, an analysis of SSO data from the period 2004 to 2012 was prepared and is included in the table below. The results of this analysis of SSO causes is included in the table on the next page.

SANITARY SEWER OVERFLOWS (SSOs) by Cause						
	Consent Decree Year 2		Consent Decree Year 1		Calendar Years 2004 - 2012	
Total SSOs	231		180		1279 (9 year period)	
SSOs by CAUSE	Number	Percent	Number	Percent	Number	Percent
Gravity Sewer Mains & Manholes:						
Blockage or Debris in Gravity Main	56	24%	90	50%	755	59%
Blockage or Debris in Manhole	7	3%	8	4%	29	2%
Infiltration & Inflow	129	56%	26	14%	211	16%
Broken Gravity Main	10	4%	20	11%	53	4%
Structural Deterioration	2	1%	0	0%	10	1%
Subtotal	204	88%	144	80%	1058	82.7%
Lift Stations:						
Lift Station Down	12	5%	18	10%	137	11%
Broken FM	5	2%	4	2%	43	3%
Faulty Air Release Valve [ARV]	1	0%	1	1%	16	1%
Faulty Equipment	0	0%	0	0%	17	1%
Subtotal	18	8%	23	13%	213	16.7%
Miscellaneous:						
Customer Responsible	1	0%	0	0%	1	0%
Unknown	8	4%	13	7%	7	0.6%
Subtotal	9	4%	13	7%	8	0.6%
TOTALS	231	100%	180	100%	1279	100%

One conclusion from the data above is that debris and blockages, while still a significant cause of SSOs, have been reduced. Shreveport continues to purchase additional equipment to clean sewer mains as well as clear blockages. It is also hiring additional personnel to operate this equipment. The City is increasing training on the correct way to clean sewer mains including removing the debris rather than simply washing the materials through the pipes. In addition, the City is adding staff and resources for its FOG program which will improve its ability track and reduce grease related SSOs. Shreveport is collecting data on city-caused building/private property backups and this data will be included in future analyses.

The City has increased efforts to inform and educate the general public on the effect of fats, grease, and oils (FOG) on the operation of the collection system. These efforts include the distribution of grease collection cans and preparation and screening of a video to encourage disposal of FOG by means other than flushing into the sewer collection system.

SEWER SYSTEM ASSESSMENT PHASE 2

The deadline for completion of Sanitary Sewer Assessment [SSA] Phase 2 is 30 months after the Effective Date of the Consent Decree (11/12/16). SSA Phase 2 includes the Southside, Queensboro, North Highlands, Westside, and Choctaw Bayou basins. Notice to Proceed for SSA Phase 2 field work was issued 01/14/15 and the contract deadline for completion was 03/14/16. Field work has, in general, been completed. The SSA contractor continues efforts to locate and inspect sewer system assets which have not been located or accessed. Field work included cleaning, CCTV, and smoke testing of gravity sewer mains and inspection of manholes. The City expects to complete field work well ahead of the CD deadline of 11/12/16 and submit both the SSA Phase 2 Report and SSA Phase 2 RMP Report before Consent Decree deadlines of 01/12/17 and 05/12/17.

Work completed during CD Year Two in Sanitary Sewer Assessment Phase 2 included:

1472 Manhole Inspections

481,104 Linear Feet of Smoke Testing.

355,670 Linear Feet of CCTV Inspection

481,042 Linear Feet of Gravity Sewer Line Cleaning

The Tables included in Attachment 3 provide details of the work performed.

The materials of construction and age of pipe which compose the gravity sewer system in the Phase 2 basins influenced the decision to CCTV inspect 100% of the Southside, Queensboro, North Highlands, Westside, and Choctaw Bayou basins WCTS where field conditions allow CCTV inspection. There were issues which affected the SSA field investigations and prevented inspection of a limited number of WCTS elements. There are many dead-end gravity sewer mains without a manhole or lamphole at the end of these gravity sewer lines. When the CCTV crews encountered a pipe joint displacement or protruding service lateral connection, the condition prevented complete CCTV inspection of the dead-end gravity sewer lines without performing additional work including heavy cleaning or protruding tap removal. The

absence of a manhole at the upstream end of the gravity sewer main prevented CCTV inspection from the reverse direction. All lines that could be accessed were smoke tested. However, no dead end line was larger than 15 inch and therefore did not require CCTV inspection under the requirements of the Consent Decree. There was an area where continuous surcharging of lines and lack of access prevented any form of inspection of the sewer collection system. EPA Region 6 was notified of this area and agreed to allow the City to remedy this situation by designing the replacement of this portion of the collection system without CCTV inspection. Prior to construction of the new collection system the City will obtain construction access. Details of this area will be included in the SSA Phase 2 Report.

SEWER SYSTEM ASSESSMENT PHASE 3

The deadline for completion of Sanitary Sewer Assessment [SSA] Phase 3 is 48 months after the Effective Date of the Consent Decree (05/12/18). SSA Phase 3 includes the Cooper Road, Wallace and Broadmoor basins. Notice to Proceed for SSA Phase 3 field work was issued 03/21/16 and the contract deadline for completion is 05/21/17. The City expects to complete this work well in advance of the CD deadline of 05/12/18 and submit both the SSA Phase 3 Report and SSA Phase 3 RMP Report before Consent Decree deadlines of 07/12/18 and 09/12/18.

Work completed during CD Year Two in Sanitary Sewer Assessment Phase 3 included:

0 Manhole Inspections

0 Linear Feet of Smoke Testing.

187,128 Linear Feet of CCTV Inspection

206,434 Linear Feet of Gravity Sewer Line Cleaning

The Tables included in Attachment 3 provide details of the work performed.

The materials of construction and age of elements which compose the gravity sewer system in the Phase 3 basins influenced the decision to CCTV inspect 100% of the Cooper Road, Wallace, and Broadmoor basin WCTSs where field conditions allow CCTV inspection. There continue to be issues which affected the SSA field investigations and prevented inspection of a limited number of WCTS elements. There are many dead-end gravity sewer mains in the Shreveport WCTS. There is no manhole or lamphole at the dead end of these gravity sewer lines. When the CCTV crews encountered a pipe joint displacement or

protruding service lateral connection, the condition prevented complete CCTV inspection of the dead-end gravity sewer lines. The absence of a manhole at the upstream end of the gravity sewer main prevented CCTV inspection from the reverse direction. All lines were that could be accessed were smoke tested. However, no dead end line was larger than 15 inch and therefore did not require CCTV inspection under the requirements of the Consent Decree.

A combination of pipe materials and soils have created issues during cleaning of the gravity mains. Unlike the predominately clay soils in SSA Phase 1 and SSA Phase 2 basins, the soils in portions of the SSA Phase 3 area are silty clay and sand. Cleaning crews must work carefully to avoid creating holes in the pipe while cleaning. The holes often cause erosion and pipe collapse.

As stated above all WCTS elements which have not been inspected at the completion of SSA Phase 2 and SSA Phase 3 will be replaced as a part of construction activities of the Phase 2 and Phase 3 Remediation Measures Plan. The SSA contractor is working to minimize assets which cannot be inspected.

To facilitate design and construction of projects identified during Consent Decree Investigations, the City hired CDM Smith as Program Manager (PM). CDM Smith was brought on board early in the Consent Decree process in order to ensure a thorough understanding of the investigations being performed and the decisions being made. The Program Manager also developed design standards and manuals for use in design and construction of all water and sewer projects for the City. All documents produced as a result of Consent Decree activities, including the Hydraulic Model Report, were reviewed by both the City and the Program Manager, with the PM serving as an informal third party reviewer and providing review comments.

As was the case with SSA – Phase 1 WCTS, rehabilitation and replacement work will be grouped into projects of appropriate size for the RMP. These projects will be turned over to the Program Manager for review and prioritization. Adjustments may be made to these projects and some projects may be combined to reduce the total number of projects. Lessons learned during preparation of Contact Document for RMP Phase 1 projects will be part of the process of developing RMP projects. This should minimize the reworking of projects which was necessary with Phase 1 projects. As a general rule the projects have been increased from $1 million to $4 million construction cost for Phase 2 SSA. Further adjustments may be made based data from additional projects being bid.

The City has procured engineering design services for some Phase 2 projects under a Master Services Agreement (MSA) system, to avoid potential delays during the City's procurement process. Procurement of additional design engineers will be necessary. The time period available for design and construction of the RMP projects, particularly those in the first phase, required that very efficient schedules be developed and maintained. Completion of RMP Reports ahead of schedule should allow additional time for design and construction of projects.

THE YEAR AHEAD – CONSENT DECREE YEAR THREE

(May 13, 2016 to May 12, 2017)

Building on the success of the first two years of the Consent Decree, Shreveport has the commitment organization and funding in place to continue to meet or exceed deadlines in the third year of the Consent Decree.

This deadline for completion of Phase 1 work is very tight and presents a particular challenge to the City's design engineers and the Program Management team. The Program Manager is working with the City to assemble staff and systems to facilitate activities required to meet this deadline.

There are several Year Three deadlines contained in the Consent Decree and the City of Shreveport is already working to meet each of these deadlines. Shown below are the specific deadlines during Year Three of the Consent Decree.

1] The City shall complete SSA Phase 2 within 30 months after the Effective Date of the Consent Decree. SSA field work will be completed prior to the deadline of November 12, 2016.

2] City shall submit Sanitary Sewer Assessment Phase 2 Report within 32 months after the Effective Date. *The SSA Phase 2 Report will be submitted to EPA before January 12, 2017.*

3] Submit Remediation Measures Plan (RMP) within 4 months of the completion of each SSA Phase. *RMP Phase 2 for SSA Phase 2 will be submitted to EPA prior to the deadline of March 12, 2017.*

4] City shall submit Capacity Assessment Remedial Measures Plan within 26 months of the Effective Date. *The Capacity Assessment Remedial Measures Plan which includes both WCTS and WWTP will be completed, reviewed and certified by the City and submitted before the deadline of July 12, 2016.*

6] City shall submit to EPA and LDEQ for review and comment an Annual Report within 60 days after the first full 12 month period following the Effective Date and after each subsequent 12 month period until termination of this Consent Decree. *This report is submitted as the Annual Report for Consent Decree Year Two and the City will submit an Annual Report after each subsequent 12 month period.*

The City of Shreveport met the deadlines of the first two Consent Decree years and has the commitment, staff, funding, and consultants in place to meet future deadlines. The City will continue to meet regularly with EPA Region 6 to discuss progress and issues that arise.

ATTACHMENT 1

PUBLIC DOCUMENT REPOSITORY [PDR]

DOCUMENTS ON WEBSITE

www.cleanwatershreveport.com

SUMMARY OF PUBLIC OUTREACH EFFORTS

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Consent Decree Public Repository

As a part of the Consent Decree that was negotiated with the Department of Justice and the Environmental Protection Agency, the City is required to provide access to documents that are generated as a part of the Consent Decree requirements. These documents will be maintained electronically as a part of this website and paper copies will be available for viewing at the Administrative Office of the Water and Sewerage Department at 505 Travis Street, Suite 580, Shreveport, Louisiana, 71101

Final Phase 1 Remedial Measure Plan (RMP) Report (with Appendix)

Shreveport SSA-Phase 1 Report for EPA submittal (with Appendices) (187MB, page load may be slow)
Note – The SSA-Phase 1 Report link above contains the SSA-Phase I Report and associated Appendices, with the exclusion of Appendix I because of its file size (1.5 TB). Appendix I of the SSA-Phase 1 Report, which contains the raw data and reports compiled during the collection system field inspection, is available for viewing at the physical location of the public repository, 505 Travis Street Suite 580, Shreveport LA.

Shreveport Hydraulic Model Report - MARCH_2015 - EPA Submittal

Shreveport CMOM Submittal for EPA

Final Annual Report - Year One

Shreveport Assessment Capacity Report 03-09-2016

On behalf of the City of Shreveport, the following strategic public outreach efforts have been planned and executed to communicate information about the Consent Decree (CD) and associated projects to residents.

- Developed a Communications and Outreach Plan as part of CIP standards
- Created Clean Water Shreveport name and designed logo
- Facilitated website development and continually update and maintain the site at www.cleanwatershreveport.com
- Designed rack card with information about sewer and water rate increases
- Wrote outline and talking points regarding water and sewer rate increases and the CD for a news conference
- Prepared and distributed news release and conducted media relations regarding upcoming CD work
- Developed PowerPoint presentations
- Met with City Council to provide updates on project work
- Prepared talking points for City Council meeting regarding servitudes
- Designed and produced information card about servitudes
- Drafted a tree removal and replacement communication policy
- Produced construction notice door hangers
- Developed and implemented FOG outreach program
- Designed badges for program contractors
- Wrote and sent letters to all neighborhood associations offering a representative to speak about upcoming CD work
- Designed and produced visuals for use during public outreach meetings
- Facilitated 12 public meetings with neighborhood groups to date; more scheduled

- Provided recommendations for a call center to assist with anticipated calls from concerned citizens

ATTACHMENT 2

SANITARY SEWER OVERFLOWS: CONSENT DECREE YEAR TWO [05/13/15 - 05/12/16]

SANITARY SEWER OVERFLOWS: CONSENT DECREE YEAR ONE [05/13/14 – 05/12/15]

	DATE	TIME	QTRSEC	MH	LOCATION	NEARintersection	TIME	CLASS	CAUSE	ENVIRON IMPACT	ACTION	STREAM	ECOVERE	LOST	
1	5/18/15	9:54 AM	EE-55	26	East 75th Street	Southern Avenue	unknown	II1	Excessive Rain	sewage was not contair	system was charged	Brush Bayou	none	none	
2	5/18/15	12:45 PM	Y-57	NR	611 East Washington	Anderson Ave	2 hrs.	II2	Excessive Rain	sewage was not contair	waited for rain water	Red River	none	unknown	
3	5/18/15	2:35 PM	Y-42	9	5859 Dianne Street	Autumn Lane	unknown	II3	Excessive Rain.	sewage was not contair	contacted lift station	Bickham Bayou	none	unknown	
4	5/19/15	8:40 AM	excessi	1	11038 colt Trail	NR	unknown	II4	Excessive Rain	sewage was not contair	checked manholes ir	Wallace Lake	none	unknown	
5	5/19/15	11:50 AM	excessi	1	11039 Colt trail	NR	unknown	II5	Excessive Rain	sewage was not contair	checked manholes ir	Wallace Lake	none	unknown	
6	5/21/15	10:20 AM	Q-44		3050 Gordonia Drive	Hanna Street	1 hr.	II6	Excessive Rain	sewage was not contair	wait for water to go d	12 Mile Bayou	none	unknown	
7	5/21/15	7:50 AM	EE-54	28	400 East 74th Street	NR	unknown	II7	Excessive Rain	sewage was not contair	checked manholes i	Brush Bayou	none	unknown	
8	5/21/15	8:45 AM	EE-54	30	400 East 75th Street	NR	unknown	II8	Excessive Rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
9	5/21/15	9:30 AM	FF-54	17	200 East 81st Street	NR	unknown	II9	Excessive Rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
10	5/21/15	10:15 AM	EE-53	26	200 East 75th	NR	unknown	II10	Excessive Rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
11	5/21/15	11:35 AM	GG-52	22	500 Lynbrook Bouleva	NR	unknown	II11	Excessive Rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
12	5/21/15	11:35 AM	GG-52	22	500 Lynbrook Bouleva	NR	unknown	II12	Excessive Rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
13	5/21/15	11:50 AM	GG-52	21	500 Lynbrook Bouleva	NR	unknown	II13	Excessive Rain	sewage was not contair	system charged due	Brush Bayou	none	unknown	
14	5/21/15	12:45 PM	GG-52	27	600 Darinda Lane	NR	unknown	II14	Excessive Rain	sewage was not contair	system charged due	Brush Bayou	none	unknown	
15	5/21/15	1:30 PM	GG-52	27	600 Darinda Lane	NR	unknown	II15	Excessive Rain	sewage was not contair	system charged due	Brush Bayou	none	unknown	
16	5/21/15	10:45 AM	EE-51	29	700 West 75th stret	NR	unknown	II16	Excessive Rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
17	6/1/15	2:05 PM	EE-56	2	510 Lloyd Street	Gilbert Drive	1.5 hrs.	MHB1	debris in bottom	sewage was not contair	wash the bottom of n	Bayou Pierre	none	none	
18	6/4/15	2:20 PM	BB-50	out of m	2851 Corbitt Street	Velva Street	unknown	BGM1	sewer main brok	sewage was not contair	turned problem over	Brush Bayou	none	unknown	
19	6/5/15	7:30 PM	X-49	36	3202 Catherine Street	Exposition	4.5 hrs	B1	Large tree growr	sewage was not contair	Hydrant turned on, d	Cross Lake	none	500 gal.	
20	6/8/15	10:40 AM	V-52	clean out	1731 Weinstock Street	Murphy Street	1 hr.	B2	Debris in Sewer	sewage was not contair	Wash the sewer mai	Cross Bayou	none	50 gal.	
21	6/8/15	11:55 AM	Y-57, Y	8,6	East Washington Stree	Youree Drive	unknown	II17	Due to rain and l	sewage was not contair	checked all manhole	Red River	none	unknown	
22	6/9/15	8:42 AM	Y-58	8, 6	East Cavett Street	East Washington Stree	unknown	II18	overflow due to f	sewage was not contair	checked all manhole	Red River	none	unknown	
23	6/9/15	10:33 AM	AA-53	26	1302 Louis Street	Saint Vincent Avenue	unknown	B3	Roots and debris	sewage was not contair	Vac-Con unstopped	Bayou Pierre	none	unknown	
24	6/9/15	1:10 PM	X-57	20,21	East Dalzell Street	Youree Drive	unknown	II19	overflow due to f	sewage was not contair	checked all manhole	Bayou Pierre	none	unknown	
25	6/9/15	2:21 PM	T-52	19-25	510 North Allen Street	NR	unknown	BGM2	broken sewer ma	sewage was not contair	Zone 5 repaired mai	Cross Bayou	none	unknown	
26	6/11/15	10:00 PM	DD-56	lean ou	Querbes Drive	East 70th Street	unknown	B4	debris	sewage was not contair	wash sewer main wit	Bayou Pierre	none	unknown	
27	6/15/15	12:45 PM	V-49	12,13	3500 Milam Street	Blanchard Road	2 hrs.	B5	grease and debr	sewage was not contair	washed kine 450 fee	Cross Lake	none	unknown	
28	6/16/15	11:21 AM	Z-56	46,45	101 east McCormick S	NR	unknown	II20	Red river floodin	sewage was not contair	checked manholes ir	Bayou Pierre	none	unknown	
29	6/18/15	9:15 AM	P-44	33	3050 Gordonia Drive	Havana Street	unknown	II21	Due to excessive	sewage was not contair	checked manholes ir	12 Mile Bayou	none	unknown	
30	6/18/15	10:02 AM	z-57	ide chu	3715 Youree Drive	Albany Avenue	unknown	II22	Excessive rain w	sewage was not contair	checked manholes ir	Bayou Pierre	none	unknown	
31	6/18/15	10:27 AM	EE-52	18	500 West 76th street	7500 Wallace Avenue	unknown	II23	Excessive rain w	sewage was not contair	charged manhole. Sy	Brush Bayou	none	unknown	
32	6/18/15	10:35 AM	X-54	9	2100 Southern Avenue	College Street	unknown	II24	overflow due to e	sewage was not contair	Wait for rain to recec	Bayou Pierre	none	unknown	
33	6/18/15	10:36 AM	FF-54	16	100 East 81st Street	Henderson Avenue	unknown	II25	Excessive rain w	sewage was not contair	checked manhole. S	Brush Bayou	none	unknown	
34	6/18/15	10:39 AM	FF-54	9	7800 Henderson Aven	200 East 79th Street	unknown	II26	Excessive rain w	sewage was not contair	checked manhole. S	Brush Bayou	none	unknown	
35	6/18/15	10:42 AM	EE-54	28	400 East 74th street	7400 Fairfield	unknown	II27	Excessive rain w	sewage was not contair	checked manholes. S	Brush Bayou	none	unknown	
36	6/18/15	12:00 PM	EE-53	26	200 East 75th Street	Southern Avenue	unknown	II28	Excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
37	6/19/15	10:40 AM	X-51	59	2534 Stonewall Street	Virginia Avenue	1 hr.	B6	debris in broke p	sewage was not contair	Wash the sewer mai	Bayou Pierre	none	unknown	
38	6/22/15	8:32 AM	W-40	3	6924 South Lakeshore	3000 Pines Road	unknown	II29	Excessive rain w	sewage was not contair	Wait fir rain water to	Cross Lake	none	unknown	
39	6/23/15	4:00 PM	KK-50	1	1217 Manor Place	Manor & goosberry	3.5 hrs	B7	sewer main was	sewage was not contair	washed the main 175	Brush Bayou	none	50 gal.	
40	6/28/15	7:01 AM	OO-56	elease \	9854 wallace Lake Ro	Overton Brooks	unknown	ARV1	Broken air releas	sewage partially contair	contractor made repa	Wallace Lake	30,000 ga	unknown	
41	6/29/15	8:50 AM	AA-46	17	4755 Lyba Street	4900 Westwood Park I	unknown	II30	Excessive rain	sewage was not contair	The sewer system w	Brush Bayou	none	unknown	
42	7/13/15	12:00 PM	W-52	38	1942-1914 Maple Stre	1700 Norma Avenue	4 hrs	BGM3	sewer main brok	sewage was not contair	contacted contractor	Cross Bayou	none	500 gal.	
43	8/15/15	12:05 PM	W-52	22-21	1845 Dove Street	Norma Avenue	4 hrs	B8	debris in main	sewage was not contair	unstop sewer main w	Cross Bayou	none	400 gal.	
44	8/29/15	2:50 PM	EE-40	ot in bo	63069 Westwood Roa	Broadacres Road	1 hr.	B9	Roots in main	sewage was not contair	wash main with wash	Gilmer Bayou	none	100 gal.	
45	9/1/15	8:09 PM	II-49	25 to 59	8967 Hawthorne Drive	NR	unknown	B10	grease	sewage was not contair	unstop sewer main w	Brush Bayou	none	500 gal.	
46	9/3/15	3:30 PM	NR	NR	801 East Preston Stree	Knight Street	unknown	SLS1	Float Balls were	sewage was not contair	lowered float balls in	Champion Lake	none	134,101.4 gal.	
47	9/4/15	1:03 PM	SS-44	17	9250 Dean Road	Dean Road	2 hrs.	B11	grease and debr	sewage was not contair	wash main 250 ft to u	Gilmer Bayou	none	3,000 gal.	
48	9/9/15	12:15 PM	NR	32	9100 Kingston Road	900 Manor Place	unknown	B12	grease	sewage was not contair	wash main with wash	Brush Bayou	none	150 gal.	
49	9/11/15	1:31 PM	GG-54	4	8534 Broad Street	Kidd avenue	5 days	BGM4	break in main	sewage was not contair	contacted contractor	Brush Bayou	none	5,000 gal.	
50	9/28/15	11:00 AM	V-52	42	1100 Norma Avenue	Weinstock Street	2 hrs.	BGM5	broken sewer ma	sewage was not contair	Went through broker	Cross Bayou	none	1,500 gal.	
51	9/30/15	10:46 AM	AA-55	13	717 Cecile Place	Creswell Avenue	1 hr.	B13	roots and grease	sewage was not contair	unstop main with wa	Bayou Pierre	none	200 gal.	
52	10/9/15	10:55 AM	V-50	5	in the rear of 209 Holc	NR	unknown	B14	Roots in sewer r	sewage was not contair	Used wash truck 425	Cross Bayou	none	unknown	
53	10/9/15	11:01 AM	FF-57	20	Corinne Circle	Creswell Road	unknown	B15	debris	sewage completely con	unstop sewer main w	Bayou Pierre	50 gal.	none	

54	10/13/15	8:00 AM	BB-56	41	4913 Danridge Place	Bethune Drive	1 hr.	B16	Grease in sewer	sewage completely con	Used wash truck 425	Brush Bayou	none	100 gal.	
55	10/19/15	6:00 AM	NR	N/A	Sludge Farm	11726 Harts Island Ro	30 min.	SLS2	Pumping waste	sewage completely con	Shorten pumping tim	Bayou Pierre	500 gal.	none	
56	10/26/15	8:58 PM	V-53	40	1500 Looney Street	NR	unknown	UNK1	unknown at the t	sewage was not contair	Night crew set up pu	Cross Bayou	none	unknown	
57	11/3/15	12:30 PM	FF-52	13 to 22	Browning Street	Wallace Avenue	unknown	B17	grease	sewage was not contair	unstop sewer main w	Brush Bayou	none	unknown	
58	11/7/15	7:11 AM	Q-45	20/21	2960 Victor Street	Wool Street	unknown	II31	Excessive Rain	sewage was not contair	checked several mar	12 Mile Bayou	none	unknown	
59	11/7/15	8:24 PM	Q-44	9	3055 Gordonia	NR	unknown	II32	Excessive rainw	sewage was not contair	checked manhole an	12 Mile Bayou	none	unknown	
60	11/8/15	9:15 AM	NR	NR	Hwy 1 Port Lift Station	Hwy 1 @ Doug Attawa	unknown	SLS3	Lift station pump	sewage completely con	overflow was contair	Red River	293,762 g	NR	
61	11/17/15	9:24 AM	CC-57	7	5700 Glen cove	Southfield Drive	unknown	II33	Excessive rain w	sewage was not contair	checked manhole in	Bayou Pierre	none	unknown	
62	11/17/15	1:46 PM	Z-55	35/45	Dudley Drive	Highland Avenue	unknown	II34	excessive rainwa	sewage was not contair	checked manholes ir	Bayou Pierre	none	unknown	
63	11/17/15	1:49 PM	II-50	7	1806 Ridgecrest Drive	Kingston Road	unknown	II35	excessive rainwa	sewage was not contair	checked manhole in	Brush Bayou	none	unknown	
64	11/17/15	3:21 PM	CC-58	30	Kayla Street	Grover Place	unknown	II36	Due to rain even	sewage was not contair	checked manhole in	Sand Beach Bay	none	unknown	
65	11/17/15	4:40 PM	CC-50	47	2750 Waggoner Avenu	NR	unknown	II37	Due to rain even	sewage completely con	checked manholes ir	Brush Bayou	none	unknown	
66	11/17/15	5:37 PM	KK-56	4	150 Dalton Street	NR	unknown	II38	Due to rain even	sewage was not contair	checked manhole in	Brush Bayou	none	unknown	
67	11/17/15	5:40 PM	BB-57	35	2100 Hollywood Avenu	NR	unknown	II39	Due to rain even	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
68	11/17/15	5:42 PM	FF-51	36	West 84th	Wyngate Boulevard	unknown	II40	Due to rain even	sewage was not contair	checked manholes ir	Brush Bayou	none	unknown	
69	11/17/15	1:39 PM	NR	P-46	2731 Willis Street	Audrey Lane	unknown	B18	debris, grease a	sewage completely con	kept watch on sewer	McCain Creek	none	unknown	
70	11/17/15	2:04 PM	Q-52	32	1520 North Hearne	North Market	unknown	B19	debris, grease, a	sewage was not contair	Kept watch on sewer	Red River	none	unknown	
71	11/17/15	4:38 PM	X-49	41	3540 Catherine Street	NR	unknown	II41	Due to rain even	sewage was not contair	checked manholes ir	Cross Lake	none	unknown	
72	11/17/15	8:21 PM	P-46	58	2731 williw Street	Linear Street	unknown	II42	Excessive rainw	sewage was not contair	checked manholes ir	McCain Creek	none	unknown	
73	11/18/15	3:22 PM	Q-52	32	1515 North Hearne Av	NR	unknown	II43	Due to rain even	sewage was not contair	checked manholes	Red River	none	unknown	
74	11/20/15	1:00 PM	W-52	21	1504 Norma Avenue	NR	2 hrs.	BGM6	broken sewer ma	sewage was not contair	unstop sewer main w	Cross Bayou	none	unknown	
75	11/25/15	6:17 PM	BB-40	NR	Pines Road	Flores Circle	unknown	FM1	Break in 24" ford	sewage partially contair	Set up pump to pull s	Cross Lake	unknown	unknown	
76	11/29/15	3:41 PM	P-46	ALL	2731Willis Street	Linear Street	unknown	B20	grease, debris, a	sewage was not contair	NR	McCain Creek	none	unknown	
77	11/30/15	4:15 PM	JJ-50	6	1001 Bert Kouns Indus	Midvale Drive	unknown	B21	grease	sewage was not contair	unstopped main with	Brush Bayou	none	unknown	
78	11/30/15	2:00 AM	NR	NR	2320 North Regional R	NR	brox. 30 r	SLS4	pump failure at li	sewage partially contair	operator was able to	12 Mile Bayou	1,500 gal	200 gal.	
79	11/30/15	3:23 PM	X-50	6 & 36A	2713 Alabama Avenue	Milton Street	unknown	B22	grease	sewage was not contair	washed line to unsto	Cross Lake	none	unknown	
80	12/1/15	11:54 AM	X-55	29	526 Boulevard Street	Highland Avenue	unknown	MHB2	stopping at inver	sewage was not contair	unstopped main	Bayou Pierre	none	unknown	
81	12/1/15	6:11 PM	FF-41	46	6117 Doncaster Drive	Pines Road	unknown	B23	grease	sewage was not contair	unstopped line with \	Gilmer Bayou	none	unknown	
82	12/2/15	11:25 AM	W-45	22	5638 South Lakeshore	Drive; The Tower Apa	Mirador Dri	UNK2	unknown	grease	sewage was not con	Cross Lake	none	unknown	
83	12/5/15	12:00 PM	PP-67	NA	Port Lift Station	Doug Attaway Bouleva	8 hrs.	FM2	Force Main blow	sewage completely con	Dammed up ditch to	Red River	718,800 g	none	
84	12/7/15	2:49 PM	Y-50	18	5900 Penick Street	Arkansas Street	unknown	II44	excessive rain, g	sewage was not contair	wash main 520 ft	Cross Lake	none	unknown	
85	12/7/15	2:56 PM	X-50	37	2939 Milton Street	Kentucky Avenue	unknown	II45	excessive rain, g	sewage was not contair	clean up will be done	Cross Lake	none	unknown	
86	12/8/15	4:07 AM	W-56	2	1300 Alexander Avenu	Stoner Avenue	unknown	UNK3	unknown	sewage was not contair	wash from manhole	Bayou Pierre	none	unknown	
87	12/14/15	11:51 AM	X-50	18	2916 Stonewall Avenu	Arkansas Street	unknown	B24	grease, debris, a	sewage was not contair	unstopped main 150	Cross Lake	none	unknown	
88	12/14/15	3:00 AM	PP-67	NA	Port Lift Station	Doug Attaway	12 hrs	FM3	Force Main blow	sewage completely con	Ditch was dammed a	Red River	1,077,120	none	
89	12/14/15	10:41 AM	BB-51	C50	2650 Randolph Street	Hearne Avenue	unknown	B25	grease	sewage was not contair	wash truck	Brush Bayou	none	unknown	
90	12/17/15	2:44 PM	LL-51	30	853 Rose Lane	unknown	1 hr.	MHB3	due to debris in	sewage was not contair	ustopped manhole	Brush Bayou	none	unknown	
91	12/18/15	10:56 AM	X-59	28	2900 Weyman street	NR	1.5 hrs.	B26	due to grease	sewage was not contair	unstopped manhole	Red River	none	unknown	
92	12/18/15	4:45 PM	X-56	29	151 East Prospect Stre	NR	unknown	UNK4	unknown	sewage was not contair	unstopped sewer line	Bayou Pierre	none	unknown	
93	12/20/15	10:00 AM	Y-52	NA	Judy Court (near dead	Judy Lane	< 24 hrs	SLS5	problem with byp	sewage was not contair	bypass line in place	Bickham Bayou	none	unknown	
94	12/24/15	11:30 AM	Y-52	12	3201 Judy court	Judy Lane	30 min.	SLS6	Lift station down	sewage was not contair	lift station working pr	Bickham Bayou	none	20,000 gal.	
95	12/28/15	2:24 PM	GG-55	13 and 1	115 York Loop	York Street	unknown	B27	grease	sewage was not contair	unstopped main	Red River	none	unknown	
96	12/28/15	4:52 PM	AA-40	37 to 32	6310 Timberman Place	South Inwood Road	unknown	UNK5	unknown	sewage was not contair	unstopped main	Bickham Bayou	none	unknown	
97	1/1/16	1:03 PM	SS-44	N/A	2094 North Cross Drive	Lakeshore Drive	unknown	CUST	break in house li	sewage partially contair	repaired sewer force	Cross Lake	none	unknown	
98	1/4/16	1:00 PM	Z-56	52	101 East Dudley Drive	Alexander Avenue	unknown	MHB4	manhole damag	sewage was not contair	turned over to zone t	Bayou Pierre	none	unknown	
99	1/11/16	8:45 AM	II-50	50	8952 Kingston Road	Brookwood Drive	unknown	B28	grease	sewage was not contair	unstop main with wa	Brush Bayou	none	unknown	
100	1/11/16	9:02 AM	II-50	40	8952 Kingston Road	Brookwood Drive	unknown	B29	grease	sewage was not contair	wash truck	Brush Bayou	none	none	
101	1/13/16	8:06 AM	GG-60	40	8525 Chalmett Drive	NR	30 min.	B30	grease	sewage was not contair	unstop main with wa	Sand Beach Bay	none	300 gal.	
102	1/15/16	1:00 PM	Z-56	52	101 East Dudley Drive	Alexander Avenue	unknown	MHB5	bricks in manhol	sewage was not contair	moved bricks and de	Bayou Pierre	unknown	unknown	
103	1/15/16	10:02 PM	U-53	8	200 Common Street	Caddo Street	unknown	SLS7	lift station down	sewage was not contair	crew called out for st	Cross Bayou	unknown	unknown	
104	1/22/16	12:14 PM	Y-57	70	3508 Beverly Place	Stratford Avenue	unknown	B31	grease, sludge, a	sewage was not contair	placed nozzle in mar	Bayou Pierre	none	none	
105	1/22/16	4:30 PM	BB-40	NR	4380 Black Pines Roa	Flores Circle	4.5 hrs	FM4	Bickham Force r	sewage partially contair	Unit # 101 called cor	Bickham Bayou	10,000 ga	2,500 gal.	
106	1/26/16	11:05 AM	DD-56	11	6345 Querbes Drive	Brookmeade Drive	unknown	B32	grease	sewage completely con	system was down, a	Bayou Pierre	unknown	unknown	
107	1/28/16	12:55 PM	kk-46	8	3049 burson drive	Colquitt Road	unknown	B33	grease	sewage completely con	wash truck	Boggy Bayou	unknown	unknown	

108	1/29/16	8:00 AM	MM-60	7	10277 Ellerbe Road	NR	unknown	STR1	manhole shifted	sewage was not contair	a 6" bypass pump wa	Bayou Pierre	none	unknown	
109	1/29/16	2:00 PM	Y-59	3 to 6	3003 Knight Street	Shreveport-Barksdale	unknown	B34	grease and debr	sewage into waterbody	Washed main 400 ft	Quail Creek Bayc	none	none	
110	2/8/16	3:56 PM	EE-43	NR	5404 shreve Hills Nortl	Shreve Park Drive	unknown	FM5	break in the 4th	sewage partially contair	dam and vacuum	Gilmer Bayou	unknown	unknown	
111	2/10/16	7:12 PM	GG-57	37-42	8873 Quimper Place	East Bert Kouns Indus	unknown	BGM7	break in main	sewage partially contair	washed line and set	Bayou Pierre	unknown	unknown	
112	2/11/16	2:57 PM	DD-54	24	276 East 67th street	Henderson Avenue	unknown	BGM8	break in main	sewage partially contair	washed line and set	Bayou Pierre	unknown	unknown	
113	2/13/16	9:00 AM	P-49	4	1300 Martin Luther Kin	i-49 Project/I-220	8 hrs.	BGM9	break in the mai	sewage was not contair	by pass pump; cont	McCain Creek	unknown	760,985 gal.	
114	2/15/16	3:22 PM	MM-58	1 & 34	315 Hidden Hollow Dri	Overcross Street	unknown	B35	rags	sewage was not contair	removed clog by was	Bayou Pierre	unknown	unknown	
115	2/15/16	2:43 PM	Y-50	8 & 11	2936 Penick Street	Kentucky Avenue	unknown	B36	rags	sewage was not contair	removed clog by was	Cross Lake	unknown	unknown	
116	2/17/16	3:49 PM	W-45	22	5638 South Lakeshore	Willow Ridge Boulevar	unknown	B37	grease	sewage was not contair	unstopped main	Cross Lake	unknown	unknown	
117	2/19/16	4:15 PM	W-55	40	700 Wichata Street	Irving Place	unknown	B38	grease	sewage was not contair	removed clog by was	Bayou Pierre	unknown	unknown	
118	2/22/16	2:45 PM	R-49	NR	2320 North Regional R	Hillary Huckaby Avenu	15 min	II46	sewage was in fl	sewage was not contair	manually activated th	12 Mile Bayou	unknown	6,000 gal.	
119	2/22/16	2:52 PM	NR	NR	2733 Willis Streeet	Linear Street	unknown	SLS8	station was dow	sewage was not contair	reactivated the static	McCain Creek	unknown	unknown	
120	2/23/16	1:39 PM	KK-55	2 & 6	9423 Wardlow Drive	Miriam Street	unknown	B39	clogged line	sewage was not contair	unstopped main	Brush Bayou	unknown	unknown	
121	2/23/16	3:37 PM	X-47	32 & 33	2621 Lakeway drive	Crossway Drive	unknown	B40	blockage in mair	sewage was not contair	pumped around the l	Cross Lake	unknown	unknown	
122	2/25/16	7:04 PM	X-59	22 & 30	2900 Weyman Street	shreveport Barksdale I	unknown	B41	grease	sewage was not contair	unstopped the main	Red River	unknown	unknown	
123	3/1/16	11:00 AM	BB-57	37	4505 Youree Drive	Leland Avenue	1.5 hrs.	II47	excessive rain	sewage was not contair	unstopped sewer ma	Bayou Pierre	unknown	unknown	
124	3/4/16	7:08 PM	W-45	18-22	5638 South Lakeshore	Willow Crest Drive	unknown	B42	grease	sewage was not contair	unstopped sewer ma	Cross Lake	unknown	unknown	
125	3/7/16	4:44 PM	GG-57	27, 55	9000 wilderness Way	Creswell Avenue	unknown	B43	grease	sewage was not contair	unstopped sewer ma	Bayou Pierre	unknown	unknown	
126	3/8/16	1:30 AM	Y-50	59	3701 Hearne Avenue	Claiborne Avenue	unknown	II48	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
127	3/8/16	6:07 PM	SZ-52	22	1615 desoto Stret	Linwood avenue	unknown	II49	Excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
128	3/8/16	6:43 PM	BB-50	40	3101 Hollywood Avenu	West Canal Blvd	unknown	II50	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
129	3/8/16	7:00 PM	BB-50	99	2600 Randolph Street	Hearne Avenue	unknown	II51	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
130	3/8/16	7:10 PM	AA-53	23	1524 Grisby Street	Linwood Avenue	unknown	II52	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
131	3/8/16	7:07 PM	Z-52	21	1647 Desoto Street	Linwood Avenue	unknown	II53	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
132	3/8/16	7:19 PM	BB-54	13	1132 Erie Street	Richmond Avenue	unknown	II54	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
133	3/8/16	7:21 PM	X-51	49	2138 Greenwood Roac	I-20	unknown	II55	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
134	3/8/16	7:22 PM	AA-52	23	4002 Joplin Street	Lyons Street	unknown	II56	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
135	3/8/16	7:57 PM	E-54	32	538 East 75th Street	Thornhill Avenue	unknown	II57	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
136	3/8/16	8:00 PM	Z-52	24	1838 Fulton Street	Wallace Avenue	unknown	II58	excessive rain	sewage partially contair	checked manholes ir	Bayou Pierre	unknown	unknown	
137	3/8/16	8:30 PM	Z-50	51	2600 Desoto Street	Hearne Avenue	unknown	II59	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
138	3/8/16	8:34 PM	AA-58	32	184 Carrolton	Anniston Avenue	unknown	II60	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
139	3/8/16	8:36 PM	GG-53	14	8717 Saint Vincent Ave	Greenbrook Boulevard	unknown	II61	excessive rain	sewage was not contair	checked manholes i	Brush Bayou	unknown	unknown	
140	3/8/16	6:48 PM	Q-52	33	1515 North Hearne Av	Grimmett Drive	unknown	II62	excessive rain	sewage was not contair	checked manholes ir	Red River	unknown	unknown	
141	3/8/16	7:03 PM	X-49	32	3540 Catherine Street	Grove Ave	unknown	II63	excessive rain	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
142	3/9/16	8:45 AM	BB-47	41	5700 Kennedy Drive	420 Hollywood Avenue	4 hrs	II64	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
143	3/9/16	9:30 AM	EE-51	29	7400 Union Avenue	West 75th Street	unknown	II65	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
144	3/9/16	9:30 AM	DD-50	99	6553 West Canal Boul	Amhearst Street	2 hrs.	II66	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
145	3/9/16	9:58 AM	EE-52	16	700 Damaka Drive	Lanny Lane	unknown	II67	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
146	3/9/16	10:15 AM	EE-52	14	721 Damaka Drive	Wallace Avenue	4 hrs	II68	excessive rain a	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
147	3/9/16	10:36 AM	EE-52	23	7700 Wallace Avenue	West 77th Street	unknown	II69	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
148	3/9/16	10:42 AM	BB-49	06	5300 Alto Vista Street	200 Clark Boulevard	unknown	II70	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
149	3/9/16	10:54 AM	GG-52	16	500 Sally ann Drive	8800 Coyth Lane	unknown	II71	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
150	3/9/16	11:15 AM	GG-52	20	500 Lynbrook Bouleva	8700 Coyth Lane	unknown	II72	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
151	3/9/16	11:45 AM	GG-52	28	600 sugar Leaf Drive	8800 Coyth Lane	unknown	II73	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
152	3/9/16	11:45 AM	EE-52	14	7500 Wallace Avenue	West 75th Street	4 hrs	II74	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
153	3/9/16	12:10 PM	DD-53	41	200 West 70th Street	7000 Dowdell Street	unknown	II75	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
154	3/9/16	12:15 PM	EE-52	23	7700 Wallace Avenue	West 77th Street	4 hrs	II76	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
155	3/9/16	12:23 PM	DD-53	27	6800 Dowdell Street	600 west 69th Street	unknown	II77	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
156	3/9/16	12:29 PM	DD-53	27	6800 Dowdell Street	West 68th Street	unknown	II78	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
157	3/9/16	1:00 PM	EE-54	21	400 East 72nd Street	Fairfield Avenue	4 hrs	II79	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
158	3/9/16	1:15 PM	EE-54	14	7100 Fairfield Avenue	400 Kemper Street	unknown	II80	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
159	3/9/16	1:20 PM	EE-54	28	7300 Fairfield Avenue	7400 East 74th Street	unknown	II81	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
160	3/9/16	1:45 PM	EE-53	26	7500 Southern Avenue	East 75th Street	unknown	II82	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
161	3/9/16	1:52 PM	Y-57	8	611 Kingstowne Place	Zeke Street	unknown	II83	excessive rain	sewage was not contair	checked manholes ir	Red River	unknown	unknown	

162	3/9/16	1:50 PM	EE-54	28	400 East 74th Street	Fairfield Avenue	3 hr	II84	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
163	3/9/16	1:58 PM	GG-51	39	611 Kingstowne Place	Yancy Place	unknown	II85	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
164	3/9/16	2:00 PM	EE-54	30	400 East 75th Street	Fairfield Avenue	4 hrs	II86	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
165	3/9/16	2:30 PM	EE-56	18	7330 Fern Avenue	East 70th Street	6 hr	II87	Excessive rain a	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
166	3/9/16	9:01 PM	W-45	17	1736 Willow Point	South Lakeshore Drive	unknown	II88	excessive rain a	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
167	3/9/16	2:32 PM	Q-44	11	3050 Gordonia Drive	Havana Street	unknown	II89	excessive rain	sewage partially contair	checked manholes ir	12 Mile Bayou	unknown	unknown	
168	3/9/16	2:43 PM	Y-50	17	2921 Penick Street	Kentucky Avenue	unknown	II90	excessive rain	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
169	3/9/16	2:46 PM	X-50	4	2086 Kentucky Avenue	Lilian Street	unknown	II91	excessive rain	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
170	3/10/16	10:45 AM	W-56	98	202 East Olive Street	Cornwell Avenue	unknown	II92	high infiltration o	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
171	3/10/16	1:00 PM	W-46	1	1748 Willow Point Driv	South Lakeshore Drive	unknown	II93	excessive rain a	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
172	3/10/16	2:20 PM	AA-51;	9	5117 Bienville Avenue	200 Corbitt Street	unknown	II94	heavy rain and fl	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
173	3/11/16	5:56 PM	P-43	43,44	4715 Hillary Huckaby	Dr. Martin Luther King	unknown	B44	rags	sewage was not contair	washed manhole to	Cross Lake	unknown	unknown	
174	3/16/16	1:59 PM	X-59	30	2924 Knight Street	Shreveport Barksdale	unknown	B45	grease and debr	sewage was not contair	washed main 350 ft t	Red River	unknown	unknown	
175	3/25/16	10:00 AM	W-55	45	1708 Gilbert Street	Wyandotte Street	unknown	B46	sewer main bloc	sewage partially contair	unstopped sewer ma	Bayou Pierre	1,000 gal	6,000 gal.	
176	3/31/16	8:00 AM	X-42	16	Rear of 3132 Autumn L	Yarbrough Road	unknown	MHB6	Manhole blocked	sewage was not contair	set up bypass pump	Cross Lake	unknown	unknown	
177	4/2/16	1:45 PM	FF-47	09	7700 Lotus Lane	Jewella Avenue	30 min.	B47	diaper stuck in th	sewage completely con	moved by-pass from	Brush Bayou	unknown	unknown	
178	4/4/16	4:10 PM	dd-52	30	638 West 68th Street	Clift Avenue	unknown	B48	breakdown (mud	sewage was not contair	washed main to unst	Brush Bayou	unknown	unknown	
179	4/4/16	7:45 PM	CC-50	37	6321 West Canal Boul	Grassmere Street	unknown	UNK6	unknown	sewage was not contair	unstopped sewer ma	Brush Bayou	unknown	unknown	
180	4/6/16	9:30 PM	DD-52	0 to 30	638 West 68th Street	Clift Avenue	unknown	B49	mud	sewage was not contair	pump was set up	Brush Bayou	unknown	unknown	
181	4/11/16	1:41 PM	AA-55	20	624 Unadilla Street	Line Avenue	unknown	II95	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
182	4/11/16	3:28 PM	EE-50	19	7100 West Canal Boul	Dollarway Drive	unknown	II96	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
183	4/11/16	7:59 PM	AA-58	32	184 Anniston Avenue	Carrollton Avenue	unknown	II97	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
184	4/11/16	9:49 PM	CC-57	07	5700 Glen Cove Street	Southfield Road	unknown	II98	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
185	4/11/16	2:33 PM	DD-53	28	207 West 68th Street	Dowdell Street	unknown	UNK7	unknown	sewage was not contair	washed main to unst	Brush Bayou	unknown	unknown	
186	4/11/16	7:23 PM	Y-58	14	3847 Penick Street	Hasset Avenue	unknown	II99	excessive rain	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
187	4/11/16	9:53 AM	Q-44	11	3050 Gordonia Drive	Hillary Huckaby III Ave	unknown	II100	excessive rain	sewage was not contair	checked manholes i	12 Mile Bayou	unknown	unknown	
188	4/12/16	6:57 PM	DD-51	20	800 west 70th Street	Union Avenue	unknown	UNK8	unknown	sewage was not contair	washed main to unst	Brush Bayou	unknown	unknown	
189	4/14/16	4:25 PM	V-54	72	1300 Line Avenue	Stoner Avenue	unknown	B50	debris	sewage was not contair	washed main and re	Red River	unknown	unknown	
190	4/14/16	4:36 PM	EE-55	20 to 29	7408 McArthur Street	East 70th Street	unknown	B52	debris	sewage was not contair	washed main and re	Bayou Pierre	unknown	unknown	
191	4/15/16	9:40 PM	FF-57	48	8455 Fern Avenue	Business Park Drive	unknown	B52	grease	sewage was not contair	set up bypass pump	Bayou Pierre	unknown	unknown	
192	4/16/16	5:00 PM	W-51	28	1425 Arlington Avenue	Dunlap Street	unknown	BGM10	break in sewer n	sewage was not contair	sewer main line will b	Cross Bayou	unknown	unknown	
193	4/18/16	10:55 AM	X-51	57	2440 Carrie Avenue	Marion Street	unknown	II101	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
194	4/18/16	12:50 PM	Z-50	51	4100 Desoto Street	Hearne Avenue	unknown	II102	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
195	4/18/16	1:41 PM	BB-49	06	3500 Clarke Boulevard	Alto Vista street	unknown	II103	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
196	4/18/16	2:22 PM	AA-50	45	3144 corbit street	Rightway Avenue	unknown	II104	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
197	4/18/16	2:35 PM	CC-57	18	5900 Glen Cove Street	Bellmead Street	unknown	II105	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
198	4/18/16	2:53 PM	AA-52	33	1822 Corbitt street	Belmont Avenue	unknown	II106	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
199	4/18/16	4:00 PM	KK-48	31	1125 Kimberly Drive	Cinnamon Drive	unknown	II107	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
200	4/18/16	4:09 PM	AA-58	32	1500 Anniston Avenue	Carrollton Avenue	unknown	II108	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
201	4/18/16	5:47 PM	GG-52	27	605 Darina Lane	Potomac Drive	unknown	II109	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
202	4/18/16	8:17 PM	Z-55	45	463 Dudley Drive	Highland Avenue	unknown	II110	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
203	4/18/16	8:30 PM	BB-54	13	1132 Erie Street	Richmand Avenue	unknown	II111	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
204	4/18/16	9:17 PM	CC-50	1	5700 West Canal Boul	Hollywood Avenue	unknown	II112	excessive rain	sewage was not contair	checked manholes i	Brush Bayou	unknown	unknown	
205	4/18/16	10:19 PM	BB-49	06	5325 Alto Vista Street	Clarke Boulevard	unknown	II113	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
206	4/19/16	10:56 PM	GG-52	35	8917 Melanie Lane	Sugarleaf Trace	unknown	II114	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
207	4/19/16	11:18 AM	X-53	40	2400 Samford Avenue	Dalzell Street	unknown	II115	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
208	4/19/16	12:22 PM	FF-52	39	506 Ray Street	Cleveland Street	unknown	II116	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
209	4/19/16	12:30 PM	AA-56	13	4000 Fern Avenue	Greenway Place	6 hrs.	STR2	bottom of the ma	sewage was not contair	temporary pump and	Bayou Pierre	unknown	unknown	
210	4/19/16	12:50 PM	BB-57	28	201 Roma Drive	Southfield Road	unknown	II117	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
211	4/19/16	5:17 PM	BB-50	34	2821 essex Street	Hearne Avenue	unknown	II118	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
212	4/19/16	5:18 PM	X-53	17	2400 Samford Avenue	Dalzell Street	unknown	II119	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
213	4/19/16	6:52 PM	Z-50	51	2600 Desoto Street	Hearne Avenue	unknown	II120	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
214	4/19/16	6:54 PM	BB-51	35	2160 Hollywood Avenu	Kent Avenue	unknown	II121	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
215	4/19/16	6:57 PM	AA-56	14	4000 Fern Avenue	Greenway Place	unknown	II122	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	

216	4/19/16	2:20 PM	W-51	28 to 21	1427 Arlington Avenue	Dunlap Street	unknown	II123	excessive rain	sewage was not contair	checked manholes ir	Cross Bayou	unknown	unknown	
217	4/19/16	2:37 PM	X-50	36	2713 alabama Avenue	Catherine street	unknown	II124	excessive rain	sewage was not contair	checked manholes ir	Cross Lake	unknown	unknown	
218	4/20/16	9:45 AM	AA-56	3, 10, a	4000 Fern Avenue	Greenway Place	unknown	II125	excessive rain	sewage partially contair	system charged due	Bayou Pierre	unknown	unknown	
219	4/20/16	11:36 AM	Z-55	35	504 dudly Drive	Highland Avenue	unknown	II126	excessive rain	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
220	4/20/16	12:33 PM	DD-52	34	644 West 69th Street	Cliff Avenue	unknown	II127	excessive rain	sewage was not contair	checked manholes ir	Brush Bayou	unknown	unknown	
221	4/20/16	3:07 PM	X-51	18	2401 Darien Street	Mabel Street	unknown	B53	rag and staff	sewage was not contair	checked manholes ir	Bayou Pierre	unknown	unknown	
222	4/20/16	8:28 PM	CC-58	1, 17, 0	152 Chelsea Drive	Grover Place	unknown	II128	excessive rain a	sewage was not contair	checked manholes ir	Sand Beach Bay	unknown	unknown	
223	4/20/16	9:50 AM	W-52	20	1917 dove Street	Norma Avenue	unknown	II129	excessive rain	sewage was not contair	checked manholes ir	Cross Bayou	unknown	unknown	
224	4/24/16	9:25 AM	CC-57	07	5800 Glen Cove Street	Southfield Road	unknown	SLS9	lift station down	sewage was not contair	sewer lift restored th	Bayou Pierre	unknown	unknown	
225	4/24/16	10:15 AM	EE-52	18	500 West 76th Street	Wallace Avenue	1 hr	B54	grease	sewage was not contair	unstopped overflowir	Brush Bayou	unknown	unknown	
226	4/25/16	2:57 PM	CC-55	05	702 Edgemont street	Line Avenue	unknown	B55	grease and rags	sewage was not contair	washed main to unst	Bayou Pierre	unknown	unknown	
227	4/30/16	9:00 AM	II-52	20	500 Kennie Road; Ken	Linwood Avenue	6.5 hrs	SLS10	tree fell on powe	sewage was not contair	remove tree; put lift s	Brush Bayou	unknown	58,344 gal.	
228	5/5/16	11:30 AM	Z-59	05	892 South Gate Road	East River Road	unknown	SLS11	hole in bypass p	sewage was not contair	washed down the are	Old River	none	50 gal.	
229	5/5/16	11:35 AM	Z-59	18	1215 Captain shreve D	Reily Lane	unknown	SLS12	leaking connecti	sewage was not contair	washed down the are	Old River	unknown	unknown	
230	5/9/16	2:00 PM	P-43	47	1915 Michoud Street	Red Stone Drive	unknown	MHB7	inflow preventer	sewage partially contair	removed the inflow p	Cross Lake	unknown	unknown	
231	5/12/16	12:20 PM	W-45	18/22	5638 south Lakeshore	Willow Crest drive	unknown	B56	heavy debris	sewage was not contair	unstopped sewer ma	Cross Lake	unknown	unknown	

	DATE	TIME	QtrSect	MH	LOCATION	NEARintersection	TIME	CLASS	CAUSE	ENVIR IMPACT	ACTION	STREAM	RECOVER	LOST	
1	5/13/2014	8:15 AM	Z-52	24	1706 Fulton Street	Wallace Street	1 hr.	II1	I&I	sewage into waterbody	washed main; dispat	Bayou Pierre	none	100 gal.	
2	5/14/2014	5:25 PM	X-49	39	Catherine Street	San Jacinto Avenue	2 hrs.	B1	gease	sewage into waterbody	washed main; applie	Cross Lake	none	30 gal.	
3	5/14/2014	5:32 PM	KK-48	17-19	Savanna Drive	Cloverdale Drive	1 hr.	U1	unknown	sewage into waterbody	washed main; applie	Brush Bayou	none	25 gal.	
4	5/15/2014	11:57 AM	EE-51	29-32	West 75th Street	Union Avenue	2 hrs.	U3	unknown	sewage into waterbody	unstopped main; flus	Brush Bayou	none	30 gal.	
5	5/16/2014	6:40 PM	KK-53	22	9412 Wrenwood Boule	Northbrook Drive	2 hrs.	B2	grease	sewage into waterbody	washed main	Brush Bayou	none	1000 gal.	
6	5/19/2014	2:43 PM	II-50	32-36-	1834 South Brookwoo	Rosewood Drive	1 hr.	B3	roots	sewage into waterbody	washed main; disinfe	Brush Bayou	none	50 gal.	
7	5/20/2014	5:20 PM	DD-55	9	6409 Line Avenue	Oak Hill Drive	1 hr.	B4	grease	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	75 gal.	
8	5/27/2014	12:00 AM	Y-55	43	661 Gladstone Boulev	Creswell Avenue	1 hr.	B5	roots	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
9	5/28/2014	9:45 PM	JJ-44	4	Dean Road	Armstead Drive	2 hrs.	B6	grease	sewage into waterbody	washed main; poure	Gilmer Bayou	none	25 gal.	
10	5/29/2014	5:05 PM	Y-50	17	2924 Jackson Street	Arkansas Avenue	2 hrs.	MHB1	invert clogged	sewage into waterbody	washed main; applie	Cross Lake	none	100 gal.	
11	6/2/2014	10:27 AM	R-45	01	2900 Round Grove La	Kemp Lane	1 hr.	B7	debris	sewage into waterbody	washed main; applie	12 Mile Bayou	none	100 gal.	
12	6/2/2014	9:12 AM	BB-54	5	1046 Ontario Street	Glen Iris Boulevard	1 hr.	B8	debris	sewage into waterbody	unstopped main; app	Bayou Pierre	none	200 gal.	
13	6/3/2014	11:26 AM	CC-40	4	6414 Greenwood Roa	Broadacres Road	2 hrs.	B9	grease	sewage into waterbody	unstopped main; app	Cross Lake	none	3000 gal.	
14	6/3/2014	2:07 PM	Y-50	18-11	2932 Jackson Street	Kentucky Avenue	2 hrs.	BGM1	break in main	sewage into waterbody	washed main; applie	Cross Lake	none	250 gal.	
15	6/5/2014	11:30 AM	Y-50	17	2951 Penick Street	Kentucky Street	1 hr.	B10	debris in main	sewage into waterbody	washed main; applie	Cross Lake	none	200 gal.	
16	6/6/2014	11:00 AM	KK-46	14	3032 Burson Drive	Mansfield Road	1 hr.	B11	debris	sewage into waterbody	unstopped main; app	Boggy Bayou	none	100 gal.	
17	6/10/2014	3:31 PM	KK-49	27-19	7118 Waymon Drive	Baird Road	2 hrs.	B12	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	100 gal.	
18	6/10/2014	2:08 PM	LL-49	20	2025 Dulverton Court	Blom Boulevard	1 hr.	MHB2	inflow preventer	sewage into waterbody	moved inflow preven	Brush Bayou	none	20 gal.	
19	6/16/2014	11:30 AM	W-45	18-21	5638 South Lakeshore	Mirador Drive	2 hrs.	B13	grease	sewage into waterbody	washed main; dispat	Cross Lake	none	100 gal.	
20	6/18/2014	11:30 AM	Y-53	clean c	2940 Samford	Glen Oak Street	1 hr.	B14	debris in main	sewage intowaterbody	unstopped main; app	Bayou Pierre	none	50 gal.	
21	6/24/2014	8:47 AM	W-48	4	3622 Bellaire Avenue	Jewella Avenue	1 hr.	B15	debris in main	sewage into waterbody	washed main; applie	Cross Lake	none	100 gal.	
22	6/24/2014	10:55 AM	W-48	27-28	1600 Jewella Avenue	Michigan Boulevard	1 hr.	B16	roots/grease	sewage into waterbody	washed main; applie	Cross Lake	none	200 gal.	
23	6/24/2014	12:41 PM	AA-54	South	901 Ockley Drive	Betty Virginia Circle	1.5 hrs.	LS1	one pump opera	sewage into waterbody	--	Bayou Pierre	none	15,800 gal.	
24	6/30/2014	9:55 AM	Y-58	17-13	2946 West Cavett Driv	Camilla Drive	unknown	B17	grease	sewage into waterbody	unstopped main	Old River	none	unknown	
25	6/30/2014	5:53 AM	X-56	2	136 Robinson Place	Centenary Boulevard	3 days	U2	unknown	sewage into waterbody	washed main; applie	Bayou Pierre	none	200 gal.	
26	7/12/2014	11:59 AM	LL-51	29-30	853 Rose Lane	Wesso Circle	2 hrs.	B18	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	50 gal.	
27	7/16/2014	4:36 PM	W-51	54	1981 Hearne Avenue	Lakeshore Drive	1 hr.	B19	grease	sewage into waterbody	washed main; applie	Cross Bayou	none	50 gal.	
28	7/18/2014	12:50 PM	EE-51	29	West 75th Street	Union Avenue	1 hr.	BGM2	bad pipe in inver	sewage into waterbody	unstopped main; app	Brush Bayou	none	500 gal.	
29	7/22/2014	3:21 PM	W-55	41	Creswell Avenue	Wichita Street	1 hr.	B20	grease	sewage into waterbody	wash main; applied E	Bayou Pierre	none	100 gal.	
30	7/22/2014	10:00 AM	W-56	6-8	200 Jordan Street	Coty Street	2 hrs.	BGM3	hole in main	sewage into waterbody	repairs scheduled fo	Bayou Pierre	none	500 gal.	
31	7/23/2014	2:51 PM	Q-47	62-57	2003 Jamison Street	Simpkin Drive	1 hr.	U4	unknown	sewage into waterbody	washed main; applie	12 Mile Bayou	none	100 gal.	
32	7/24/2014	3:00 PM	MM-58	Norris	10198 Thornwood Driv	Norris Ferry Road	5 hrs.	LS2	power out due to	sewage partially contair	sewage vacuumed u	Long Lake	3600 gal.	7171 gal.	
33	7/24/2014	8:00 AM	Y-38	Tou-D	6826 Jefferson Paige F	Jefferson Paige Road	1 hr.	LS3	power lost due to	sewage into waterbody	called AEP/SWEPC	Cross Lake	none	6 gal.	
34	7/28/2014	7:30 PM	PP-60	Swamp	2912 Long Lake Drive	Falmoth Drive	2 hrs.	LS4	contractor disco	sewage into waterbody	bypass pump set up;	Long Lake	none	145 gal.	
35	8/2/2014	8:05 PM	Y-57	55	Stratford Avenue	Johnette Street	1 hr.	B21	grease	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
36	8/5/2014	1:00 PM	Z-47	20-27	Greenwood Road	Golf Links Boulevard	1 hr.	B22	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	100 gal.	
37	8/11/2014	10:50 AM	Y-50	33	3305 Exposition Avenu	Huston Street	1 hr.	B23	debris in main	sewage into waterbody	washed main; applie	Cross Lake	none	50 gal.	
38	8/11/2014	3:38 PM	CC-54	60/clea	5904 Henderson Aven	Pieeremont Road	1 hr.	B24	roots/possible br	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
39	8/12/2014	7:55 AM	CC-39	1	6414 Greenwood Roa	Broadacres Road	unknown	MHB3	blocks in manho	sewage into waterbody	unstopped main; app	Cross Lake	none	1500 gal.	
40	8/14/2014	2:38 PM	JJ-42	5-40	Newcastle Boulevard	Bert Kouns Industrial I	unknown	B25	grease	sewage into waterbody	washed main; applie	Gilmer Bayou	none	1000 gal.	
41	8/15/2014	4:27 PM	KK-44	4	9250 Dean Road	Armistead Drive	1 hr.	U5	unknown	sewage into waterbody	unstopped main; disi	Gilmer Bayou	none	20 gal.	
42	8/15/2014	4:48 PM	Y-55	44	639 Gladstone Boulev	Creswell Avenue	1 hr.	U6	unknown	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	50 gal.	
43	8/16/2014	8:30 PM	JJ-52	Brushy	Mykanos Trace	Briarcrest Street	2 hrs.	LS5	both pumps tripp	sewage into waterbody	crews got both pump	Brush Bayou	none	60 gal.	
44	8/18/2014	7:30 PM	GG-46	Meado	Meadow Parkway Driv	Meriwether Road	1 hr.	LS6	power failure to I	sewage into waterbody	power restored	Gilmer Bayou	none	140 gal.	
45	8/18/2014	8:30 PM	JJ-52	Brushy	Mykanos Trace	Briarcrest Street	1 hr.	LS7	both pumps tripp	sewage into waterbody	crews got both pump	Brush Bayou	none	30 gal.	
46	8/20/2014	11:10 AM	Y-50	28	3015 Jackson Street	Kentucky Avenue	1 hr.	BGM4	roots/broken ma	sewage into waterbody	unstopped main; app	Cross Lake	none	100 gal.	
47	8/25/2014	1:38 PM	CC-57	7	321 Southfield Road	Glen Cove Street	1 hr.	B26	grease	sewage into waterbody	unstopped main; app	Bayou Pierre	none	50 gal.	
48	9/1/2014	3:20 PM	Z-47	5-7	3100 Iberville Drive	Chamberlain Drive	1 hr.	B27	grease	sewage into waterbody	washed main; applie	Cross Lake	none	100 gal.	
49	9/1/2014	2:00 PM	EE-59	River V	Old River Road	Bert Kouns Industrial I	4 hrs.	LS8	SWEPCO transf	sewage into waterbody	portable generator se	Red River	none	70 gal.	
50	9/2/2014	10:36 AM	NN-58	--	760 Overton Brooks R	Norris Ferry Road	4 days	FM1	small leak in forc	sewage completely con	force main repaired;	Long Lake	30,000 ga	none	
51	9/4/2014	2:38 PM	V-55	45-36	443 Vine Street	Highland Avenue	1 hr.	B28	grease	sewage into waterbody	washed main; applie	Red River	none	50 gal.	
52	9/10/2014	6:02 PM	Z-56	52	3855 Victory Drive	East Gregg Street	7 hrs.	B29	roots & grease; I	sewage into waterbody	grease removed/mai	Bayou Pierre	none	350 gal.	
53	9/11/2014	7:48 PM	BB-46	42-41	4913 Dandridge Place	Bethume Drive	2 hrs.	B30	grease	sewage into waterbody	unstopped main; app	Brush Bayou	none	200 gal.	
54	9/17/2014	8:46 PM	X-49	36	3202 Catherine Street	McCutcheon Avenue	1 hr.	U7	Unknown	sewage into waterbody	washed main; applie	Cross Lakes	none	10 gal.	

55	9/21/2014	3:07 PM	II-49	24	Hawthorne Drive	Lyles Lane	1 hr.	MHB4	sewer charged;	sewage into waterbody	washed main; applie	Brush Bayou	none	300 gal.	
56	9/22/2014	5:47 PM	B-58/A	9/35	227 Carrolton Avenue	Anniston Avenue	1 hr.	B31	roots	sewage into waterbody	washed main; applie	Bayou Pierre	none	75 gal.	
57	9/25/2014	3:53 PM	HH-59	22-21	316 South Wickford Ci	Smitherman Drive	1 hr.	B32	roots	sewage into waterbody	washed main; disinfe	Sand Beach Bayo	none	10 gal.	
58	9/29/2014	10:52 AM	DD-48	8-9	3950 West 70th Street	Jewella Avenue	1.5 days	BGM5	sewer main brok	sewage into waterbody	by pass pump set up	Brush Bayou	none	10,000gal	
59	9/29/2014	3:57 PM	BB-54	1-5	1108 Ontario Street	Glen Iris Boulevard	1 hr.	U8	unknown	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	20 gal.	
60	10/4/2014	1:35 PM	GG-60	40	8525 Chalmette Drive	Jackson Square Boule	unknown	B33	grease	sewage into watebody	washed main	Sand Beach Bayo	none	300 gal.	
61	10/7/2014	2:49 PM	Q-51	14-15	Barton Drive	Beauregard Drive	2 hrs.	B34	rags and grease	sewage into waterbody	washed main; disinfe	12 Mile Bayou	none	100 gal.	
62	10/8/2014	2:43 PM	GG-55	15-16	Line Avenue	Millicent Way	1 hr.	B35	roots & grease	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
63	10/10/2014	4:12 PM	Z-56	33-32	East Slattery Boulevar	Alexander Avenue	1 hr.	B36	tree roots and de	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
64	10/12/2014	6:58 AM	Y-50	8	2818 Kentucky Avenue	Hardy Street	2 hrs.	B37	debris in main	sewage into waterbody	washed main; cleane	Cross Lake	none	200 gal.	
65	10/12/2014	12:42 PM	X-49	36	3203 Catherine Street	McCutcheon Avenue	2 hrs.	B38	debris in main	sewage into waterbody	washed main; cleane	Cross Lake	none	250 gal.	
66	10/13/2014	9:23 PM	X-55	99-40	2700 Gilbert Drive	Wilkinson Street	1 hr.	B39	grease/debris in	sewage into waterbody	washed main cleanu	Bayou Pierre	none	600 gal.	
67	10/13/2014	3:31 PM	W-48	22	1609 Hassett Avenue	Michigan Boulevard	1 hr.	LS18	bypass pump st	sewage into waterbody	Red River Pump Co.	Cross Lake	none	3000 gal.	
68	10/14/2014	7:43 PM	BB-50	33-34	2809 Essex Stret	Fairy Avenue	1 hr.	B40	grease & roots	sewage into waterbody	washed main; cleane	Brush Bayou	none	60 gal.	
69	10/16/2014	1:02 PM	X-54	48	2500 Southern Avenue	Prospect Street	1 hr.	B41	grease in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
70	10/16/2014	2:07 PM	JJ-52	11	9200 Mykanos Trace	Brushy Bayou Bouleva	1 hr.	LS9	lift station down	sewage into waterbody	dispatched sewer lift	Brush Bayou	none	50 gal.	
71	10/20/2014	2:15 PM	U-54	47	719 Edwards Street	Crockett Street	1 hr.	B42	debris in main	sewage into waterbody	washed main cleanu	Red River	none	50 gal.	
72	10/21/2014	10:06 AM	V-57	8	1243 Crofton Street	Stoner Avenue	1 hr.	B43	debris in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
73	10/22/2014	11:00 AM	CC-48	54	Broadway Avenue	Carver Street	3 hrs.	BGM6	manhole broken	sewage into waterbody	washed main; dispat	Brush Bayou	none	3000 gal.	
74	10/22/2014	12:10 PM	Y-54	9	2907 Barrett Street	Rutherford Street	1 hr.	BGM7	bad pipe	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
75	10/23/2014	10:40 AM	II-59	3	518 South Dresden Cc	Village Green Drive	1 hr.	B44	debris in main	sewage into waterbody	washed main; applie	Sand Beach Bayo	none	50 gal.	
76	10/26/2014	1:31 PM	W-48	28	Michigan Boulevard	Jewella Avenue	unknown	B45	heavy grease	sewage into waterbody	unstopped main; app	Cross Lake	none	1000 gal.	
77	11/7/2014	5:01 PM	II-47	16-15	8977 Walker Road	Mackey Lane	1 hr.	B46	grease and rags	sewage into waterbody	washed main; applie	Gilmer Bayou	none	150 gal.	
78	11/10/2014	1:30 PM	BB-54	1-5	1108 Ontario Street	Glen Irus Boulevard	1 hr.	BGM8	bad spot in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	10 gal.	
79	11/14/2014	3:17 PM	DD-53	31-27	302 West 69th Street	Dowdell Street	1 hr.	B47	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	70 gal.	
80	11/15/2014	9:19 AM	U-49	5	209 Holcomb Drive	Westheimer Street	6 hrs.	B48	roots and grease	sewage into waterbody	washed main; applie	Cross Bayou	none	1500 gal.	
81	11/24/2014	12:50 PM	DD-54	--	6401 Line Avenue	Oak Hill Drive	2 hrs.	B49	heavy grease an	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
82	12/5/2014	10:14 AM	JJ-52	Brushy	9398 Briarcrest Street	Mykanos Trace	1 hr.	LS10	Lift station down	sewage into waterbody	called sewer lift crew	Brush Bayou	none	100 gal.	
83	12/7/2014	6:55 PM	Z-56	clean-c	270 East dudley Drive	Cornwell Avenue	1 hr.	B50	grease	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	100 gal.	
84	12/8/2014	3:12 PM	X-56	29-30	112 East Wilkinson Str	Alexander Avenue	1 hr.	B51	grease	sewage into waterbody	washed main	Bayou Pierre	none	50 gal.	
85	12/8/2014	5:01 PM	EE-52	18-19	537 West 76th Street	Wallace Avenue	1 hr.	B52	grease	sewage into waterbody	washed main disinfe	Brush Bayou	none	100 gal.	
86	12/9/2014	3:10 PM	Z-48	6-7	3914 Oakcrest Street	Sandra Street	1 hr.	B53	roots & grease	sewage into waterbody	washed main; disinfe	Cross Lake	none	50 gal.	
87	12/9/2014	5:51 PM	BB-54	1-5	1108 Ontario Street	Glen Iris Boulevard	1 hr.	BGM9	bad spot in main	sewage into watebody	washed main; disinfe	Bayou Pierre	none	50 gal.	
88	12/9/2014	12:40 PM	EE-56	2	510 Lloyd Lane	Gilbert Drive	1 hr.	U9	unknown	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	50 gal.	
89	12/10/2014	9:28 AM	DD-58	19	6620 Youree Drive	West 70th Street	1 hr	B54	grease	sewage into waterbody	washed main; cleane	Sand Beach Bayo	none	300 gal.	
90	12/10/2014	9:00 AM	Y-48	--	3700 Hardy Street	Jewella Avnue	12 hrs.	LS11	hose leaking on	sewage into waterbody	replaced hose	Cross Lake	none	100 gal.	
91	12/15/2014	10:10 AM	AA-55	1	3814 Creswell Avenue	Cecile Place	1 hr.	B55	grease	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	200 gal.	
92	12/15/2014	10:44 AM	AA-54	36-35	4057 Baltimore Avenu	Lawhon Street	1 hr.	B56	grease	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	10 gal.	
93	12/15/2014	2:16 PM	X-53	27-26	2625 William Avenue	Wilkinson Street	unknown	BGM10	bad spot in main	sewage into watebody	washed main; disinfe	Bayou Pierre	none	80 gal.	
94	12/19/2014	11:34 AM	U-50	15	300 Hearne Avenue	Myrtle Street	unknown	BGM11	brick in invert	sewage into waterbody	set up bypass pump;	Cross Bayou	none	100 gal.	
95	12/19/2014	11:36 AM	x-49	39	3431 Catherine Street	San Jacinto Avenue	3 hrs.	LS12	bypass pump co	sewage into waterbody	increase pupmp pow	Cross Lake	none	1500 gal.	
96	12/19/2014	11:09 AM	Z-55	41-42	424 McCormick Avenu	Highland Avenue	ongoing	U10	unknown	sewage into waterbody	washed main; dispat	Bayou Pierre	none	6500 gal.	
97	12/21/2014	5:22 PM	JJ-46	cleano	9141 Walker Road	Bert Kouns Industrial I	1 hr.	B57	grease	sewage into waterbody	washed main; vacuu	Boggy Bayou	none	500 gal.	
98	12/22/2014	10:20 AM	W-45	18-22	5638 South Lakeshore	Mirador Drive	unknown	B58	grease	sewage into waterbody	washed main; disinfe	Cross Lake	none	200 gal.	
99	12/22/2014	3:49 PM	V-53	22	1247 Oakland Street	Lawrence Street	1 hr.	B59	grease	sewage into waterbody	washed main; disinfe	Cross Bayou	none	75 gal.	
100	12/22/2014	1:06 PM	Y-54	9-17	2761 Barrett Street	Rutherford Street	1 hr.	BGM12	unknown; bad sp	sewage into waterbody	washed main; cleane	Bayou Pierre	none	100 gal.	
101	12/22/2014	2:20 PM	CC-56/I	41/6	6711 Querbes Drive	Berkshire Place	1 hr.	BGM13	bad spot in main	sewage into waerbody	washed main; disinfe	Bayou Pierre	none	20 gal.	
102	12/24/2014	2:28 PM	KK-49/I	52/44	9520 Baird Road	Evergreen Drive	1 hr.	B60	grease & roots	sewage into waterbody	washed main; disinfe	Brush Bayou	none	50 gal.	
103	12/24/2014	5:26 PM	Force M	--	545 Overton Brooks R	Norris Ferry Road	unknown	FM2	air release valve	sewage into waterbody	dam built around ma	Long Lake	none	70 gal.	
104	1/3/15	2:53 PM	EE-51	20	748 West 73rd Street	Union Avenue	unknown	II2	I&I	sewage into waterbody	--	Brush Bayou	none	100 gal.	
105	1/5/15	10:50 PM	AA-51	13 to 1	2500 Drexel Street	Virginia Avenue	1 hr.	B61	roots & grease	sewage into waterbody	unstopped main; clea	Brush Bayou	none	1000 gal.	
106	1/7/15	9:00 AM	DD-56	11	6345 Querbes Drive	Brookmeade Drive	48 hrs.	II26	excessive rain	sewage into waterbody	cleaned and disinfec	Bayou Pierre	none	48,000gal	
107	1/12/15	11:08 AM	V-49	21-12	3417 Sunset Drive	Murray Lane	unknown	B62	roots	sewage into waterbody	set upbypass pump	Cross Lake	none	200 gal.	
108	1/12/15	5:25 PM	EE-49	36-28	3301 Red Bud Lane	Woodhaven Lane	1 hr.	B63	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	20 gal.	
109	1/12/15	5:30 PM	X-49	28-23	3430 Judson Street	Mertis Avenue	1 hr.	B64	grease	sewage into waterbody	washed main; applie	Cross Lake	none	70 gal.	

110	1/13/15	9:15 AM	X-49	33	3400 Catherine Street	San Jacinto Avenue	1 hr.	B65	roots	sewage into waterbody	washed main; washe	Cross Lake	none	200 gal.	
111	1/13/15	2:29 PM	EE-51	28-31	737 Pinetree Drive	Brushy Lane	1 hr.	B66	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	50 gal.	
112	1/16/15	1:24 PM	Z-53	29-30	3505 Dowdell Street	Dickinson Street	unknown	U11	unknown	sewage into waterbody	washed main; disinfe	Bayou Pierre	none	150 gal.	
113	1/16/15	2:39 PM	X-53	30-29	2400 Samford Avenue	Bolinger Street	unknown	U12	unknown	sewage into waterbody	washed main; applie	Bayou Pierre	none	150 gal.	
114	1/20/15	6:02 PM	II-49	15-17	8919 Hawthorne Drive	Torento Lane	unknown	B67	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	200 gal.	
115	1/21/15	2:47 PM	Q-51	14-13	1600 Barton Drive	Beauregard Drive	unknown	B68	grease	sewage into waterbody	washed main; disinfe	12 Mile Bayou	none	75 gal.	
116	1/22/15	11:30 AM	II-49	17	8900 Hawthorne Drive	Torento Lane	2 hrs.	B69	grease	sewage into waterbody	washed main; applie	Brush Bayou	none	300 gal.	
117	1/22/15	9:00 AM	DD-56	11	6345 Querbes Drive	Brookmeade Drive	48 hrs.	II3	excessive rain	sewage into waterbody	cleaned and disinfec	Bayou Pierre	none	48,000gal	
118	1/22/15	3:32 PM	U-53	10-9	1404 Alston Street	North Allen Avenue	unknown	II4	I&I	sewage into waterbody	checked manholes u	Cross Bayou	none	unknown	
119	1/22/15	4:05 PM	U-52	41	1829 Perrin Street	Norma Avenue	unknown	II5	I&I	sewage into waterbody	--	Cross Bayou	none	unknown	
120	1/22/15	3:59 PM	R-44	Havan	3050 Gordonia Drive	Haavanna Street	unknown	LS13	lift station down	sewage into waterbody	called sewer lift crew	12 Mile Bayou	none	150 gal.	
121	1/23/15	9:05 AM	Z-52	17	1635 Desoto Street	Linwood Avenue	1 hr.	B70	roots in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	100 gal.	
122	1/26/15	5:21 PM	X-55	43-55	Pinehurst Boulevard	Prospect Street	1 hr.	B71	roots	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
123	1/26/15	4:42 PM	AA-55	20-26	623 Ockley Drive	Creswell Avenue	1 hr.	U13	unknown	sewage into waterbody	washed main; applie	Bayou Pierre	none	75 gal.	
124	1/27/15	11:30 AM	Q-51	25	Nelsoon Street	Corporate Drive	2 hrs.	B72	grease	sewage into waterbody	washed main	12 Mile Bayou	none	200 gal.	
125	1/31/15	1:12 PM	W-55	37	653 Wyandotte Street	1700 Irving Place	1 hr.	B73	debris in main	sewage into waterbody	washed main; applie	Bayou Pierre	none	50 gal.	
126	2/2/15	5:40 PM	W-56	11, 9	Egan Street	Alexander Street	1 hr.	B74	roots	sewage was not contair	unstopped main; was	Red River	none	75 gal.	
127	2/3/15	5:14 PM	X-50	23, 22	2810 Judson Street	Missouri Avenue	1 hr.	B75	roots & grease	sewage into waterbody	unstopped main; was	Cross Bayou	none	50 gal.	
128	2/5/15	11:30 AM	Y-53	NR	2940 Sandford	West Kirby	1 hr.	B76	debris	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	150 gal.	
129	2/5/15	9:26 AM	AA-55	NR	740 Oneonta Street	4100 Line Avenue	1 hr.	BGM14	broken pipe	sewage into waterbody	washed main; applie	Bayou Pierre	none	30 gal.	
130	2/5/15	4:10 PM	V-56	18, 17	1910 Market Street	Vine Street	1 hr.	BGM15	roots/possible br	sewage into waterbody	unstopped main; disi	Red River	none	30 gal.	
131	2/9/15	11:00 AM	DD-53	NR	582 East 70th Street	Line Avenue	1 hr.	B77	debris in main	sewage into waterbody	unstopped main; disi	Bayou Pierre	none	100 gal.	
132	2/22/15	10:30 AM	NY-48	13	3655 1/2 Stonewall Str	Jewella Avenue	1hr.	BGM16	sewer main brok	sewage completely con	cleaned and disinfec	Cross Lake	N/A	N/A	
133	2/23/15		DD-56	11, 14	Querbes Drive	Brookmeade Drive	1 hr.	II6	excessive rain	sewage into waterbody	cleaned site	Bayou Pierre	none	1,200 gal.	
134	2/24/15		DD-56	11, 14	Querbes Drive	Brookmeade Drive	1 hr.	II7	excessive rain	sewage into waterbody	cleaned site	Bayou Pierre	none	1,200 gal.	
135	2/25/15		DD-56	11, 14	Querbes Drive	Brookmeade Drive	1 hr.	II8	excessive rain	sewage into waterbody	cleaned site	Bayou Pierre	none	1,200 gal.	
136	2/26/15	1:47 PM	CC-52	19	6020 Linwood Avenue	West 60th Street	1 hr.	BGM17	sewer main brok	sewage into waterbody	unstopped main; clea	Brush Bayou	none	150 gal.	
137	3/2/15	3:31 PM	X-51	29	2200 Stonewall Street	I-20	1 hr.	B78	grease in sewer	sewage was not contair	washed main; disinfe	Cross Lake	none	200 gal.	
138	3/3/15	5:01 PM	Z-53	4 to29	Linwood Avenue	Dickinson Street	1 hr.	B79	grease	sewage into waterbody	unstopped main; was	Bayou Pierre	none	200 gal.	
139	3/3/15	4:54 PM	Z-54	15	830 Ratcliff Street	Line Avenue	30 min.	LS14	hose leaking on	sewage into waterbody	washed main;cleane	Bayou Pierre	none	100 gal.	
140	3/4/15	2:40 PM	Y-53	4 to 13	1446 Glen Oak	Kings Highway	1 hr.	B80	clogged main	--	washed sewer main	Bayou Pierre	none	500 gal.	
141	3/6/15	4:30 PM	XX-49	N/A	3655 1/2 Stonewall	Jewella Avenue	1 hr.	B81	sewer main brok	sewage partially contair	repaired manhole; cl	Cross Lake	50 gal.		
142	3/9/15	9:53 AM	EE-51	17 to 1	926 Windsor	N/A	1 hr.	II10	excessive rain	sewage into waterbody	washed main; disinfe	--	none	1,000 gal.	
143	3/9/15	10:10 AM	W-45	N/A	5553 South Lakeshore	West Chester Street	2 hrs.	II11	excessive rain	sewage into waterbody	--	Cross Lake	none	1,500 gal.	
144	3/9/15	1:47 PM	DD-56	11 & 1	Querbes Drive	Brookmeade Drive	1 hr.	II12	excessive rain	sewage into waterbody	disinfected/washed a	Bayou Pierre	none	1,200 gal.	
145	3/9/15	9:25 AM	GG-49	7	8227 Lucille Avenue	Betty Street	1 hr.	II9	excessive rain	sewage into waterbody	washed sewer main	Brush Bayou	none	500 gal.	
146	3/10/15	4:15 PM	V-50	13	3158 Murphy Street	Alabama Avenue	1 hr.	FM3	sewer force mair	sewage into waterbody	Repaired main; clear	Cross Bayou	3,000 gal	1,600 gal	
147	3/10/15	11:00 AM	NR	NR	Willow Point I	South Lakeshore Driv	8 hrs.	LS15	both pumps wind	sewage into waterbody	put station on bypass	Cross Lake	23,936 to	2,936 gal.	
148	3/12/15	7:21 AM	EE-53	14 to 1	367 West 73rd street	NR	1 hr.	B82	debris and roots	sewage into waterbody	unstopped main; was	Brush Bayou	none	500 gal.	
149	3/12/15	8:51 AM	DD-55	6 to 7/4	400 Dru Circle	NR	1 hr.	II13	excessive rain	sewage into waterbody	checked manholes ir	Bayou Pierre	none	500 gal.	
150	3/12/15	8:51 AM	V-55	17 to 1	1601 Market Street	NR	1 hr.	II14	excessive rain	sewage into waterbody	repaired sewer main	Red River	none	50 gal.	
151	3/12/15	9:12 AM	NR	NR	Randolph Street	Hearne Avenue	1. hr	II15	excessive rain	sewage into waterbody	checked manholes ir	Brush Bayou	none	1,200 gal.	
152	3/12/15	9:41 AM	BB-50	NR	Corbitt Street	Hearne Avenue	1 hr.	II16	excessive rain	sewage into waterbody	checked manholes ir	Brush Bayou	none	1,000 gal.	
153	3/12/15	10:33 AM	BB-54	NR	Line Avenue	Ockley Drive	30 min.	II17	excessive rain	sewage into waterbody	checked manholes ir	Bayou Pierre	none	1,500 gal.	
154	3/12/15	10:45 AM	AA-52	33 to 2	4113 Belmont Street	NR	1 hr.	II18	excessive rain	sewage into waterbody	checked manholes ir	Bayou Pierre	none	1,500 gal.	
155	3/12/15	10:45 AM	AA-52	25	4113 Belmont Street	NR	N/A	II19	excessive rain	sewage into waterbody	--	Bayou Pierre	none	1,000 gal.	
156	3/12/15	10:52 AM	X-51	31, 32,	2713 Alabama Avenue	NR	1/2 hr.	II20	excessive rain	sewage into waterbody	checked manholes ir	Cross Lake	none	1,00 gal.	
157	3/12/15	1:48 PM	BB-57	6	4350 Finley Drive	Opennsylvannia Aven	1 hr.	II21	excessive rain	sewage into waterbody	--	Bayou Pierre	none	2,000 gal.	
158	3/12/15	2:00 PM	DD-56	11	Brookmeade Drive	Querbes Drive	NR	II22	excessive rain	sewage into waterbody	--	Bayou Pierre	none	1,000 gal.	
159	3/12/15	5:03 PM	AA-52	22	1829 Vivian Street	NR	NR	II23	excessive rain	sewage into waterbody	--	Brush Bayou	none	1,000 gal.	
160	3/12/15	8:34 AM	NR	NR	Olive Street	Youree Drive	1/2 hr.	MHB5	charged manhol	sewage into waterbody	checked manholes ir	Anderson Bayou	none	1,000 gal.	
161	3/12/15	10:27 AM	NR	NR	East Olive Street	Highland Avenue	1/2 hr.	MHB6	charged manhol	sewage into waterbody	checked manholes ir	Anderson Bayou	none	1,000 gal.	
162	3/13/15	1:31 PM	AA-54	25 to22	3852 Maryland Avenue	Ockley Drive	1 hr.	II24	excessive rain	sewage into waterbody	checked manholes ir	Bayou Pierre	none	none	
163	3/15/15	2:50 PM	NR	NR	9398 Briarcrest Street	Linwood Avenue	1 hr.	II25	lift station down	sewage into waterbody	dispatched sewer lift	Brush Bayou	none	1,000 gal.	
164	3/17/15	4:56 PM	Y-48	2	2805 Jewella Avenue	Hardy Street	2 hrs.	BGM10	contractor hits 1	sewage into waterbody	bypss pump set up u	Cross Lake	1,000 gal	500 gal.	

165	3/19/15	10:30 AM	W-50	NR170	3143 Murphy Street	Alabama Avenue	2 hrs.	FM4	force main blow	sewage into waterbody	contractor repaired n	Cross Lake	1,000 gal	500 gal.	
166	3/24/15	3:54 PM	W-45	18 to 2	5638 South Lakeshore	NR	2 hrs.	B83	debris in main	sewage into waterbody	washed main applied	Cross Lake	none	1,000 gal.	
167	3/26/15	8:44 AM	NR	NR	3400 Darien Street	2300 Block Mertis Ave	1 hr.	LS16	loss of power	sewage into waterbody	lift station back on lin	Cross Lake	none	99.66 gal.	
168	3/27/15	11:15 AM	Z-43	NR	Jefferson Paige Road	I-220	2 hrs.	FM5	force main broke	sewage into waterbody	contractors made rep	Cross Lake	none	2,000 gal.	
169	3/31/15	10:47 AM	U-53	18	Buena Vista Street	North Western Avenue	1 hr	B84	debris in main	sewage into waterbody	unstopped main; was	Cross Bayou	none	100 gal.	
170	4/1/15	8:48 PM	II-49	56-57	1932 South Brookwood	Blom Boulevard	2 hrs.	B85	grease in sewer	sewage into waterbody	unstopped main with	Brush Bayou	none	2000 gal	
171	4/11/15	4:00 PM	X-50	30	31004 Catherine Stree	Alabmama Ave.	20 min.	B86	grease and debr	sewage into waterbody	washed main 450 ft t	Cross Lake	none	50 gal.	
172	4/14/15	9:55 PM	V-54	21	1100 Sam Fertita Drive	1200 Snow Street	1 hr.	B87	Debris on Sewer	sewage into waterbody	unstop the sewer ma	Red River	none	100 gal.	
173	4/15/15	8:59 AM	II-49	58	1919 South Brookwood	89 Turned Drive	1 hr.	MHB7	debris in manhol	sewage into waterbody	washed the sewer m	Brush Bayou	none	100 gal.	
174	4/17/15	2:32 PM	X-53	28, 26	1342 Wilkinson Street	William Avenue	1 hr	BGM18	main broken dov	sewage into waterbody	called out vac truck	Bayou Pierre	none	100 gal.	
175	4/18/15	4:21 PM	W-52	14,16	1844 Jordan Street	Norma Avenue	2 hrs.	B88	grease	sewage into waterbody	unstop service line	Cross Bayou	200 gal.	none	
176	4/19/15	7:00 AM	NR		11301 East Kings High	Flournoy-Lucas Road	45 Min.	LS17	Power surge and	sewage completely con	diver incoming flow t	none	100,000 g	none	
177	5/2/15	1:10 PM	II-49		8965 Turner Dr.	S. Brookwood Dr.	1 hr	B89	debis in main	sewage was not contair	unstop main with was	Brush Bayou	none	100 gal.	
178	5/2/15	4:34 PM	V-53	50	1600 Ashton St	1000 Pierre St	1/2 hr.	B90	debris in main	sewage was not contair	wash main	Cross Bayou	none	100 gals	
179	5/2/15	1:20 PM	V-53	40	1001 Pierre Ave.	Looney Ave.	2 hrs.	BGM19	break in main	sewage was not contair	wash main	Cross Bayou	none	none	
180	5/11/15	10:55 AM	DD-56	21	439 Lloyd Ln.	500 Gilbert St	1.5 hrs.	MHB8	debris in MH 18	sewage was not contair	wash main	Bayou Pierre	none	200 gals	

ATTACHMENT 3

SEWER SYSTEM ASSESSMENT [SSA]

PHASE 2 QUANTITIES

SOUTHSIDE, QUEENSBORO, NORTH HIGHLANDS, WESTSIDE,

AND CHOCTAW BAYOU BASINS

PHASE 3 QUANTITIES

COOPER ROAD, WALLACE, AND BROADMOOR BASINS

SSA Phase 2 Numbers Report - 5/13/2015 - 5/12/2016
Southside, Queensboro, North Highlands, Westside, and Choctaw Bayou Basins

Pipe Diameter	Cleaning (linear ft)	CCTV (linear ft)	Smoke (linear ft)	Manhole Inspections
6 or less	112,535	110,256	112,536	
8	277,888	225,492	278,597	
10	45,477	40,328	45,378	
12	18,171	15,460	17,952	
15	9,760	8,806	9,827	
18	3,053	2,486	3,055	
20	192	83	183	
21	5,033	5,068	5,063	
24	5,112	5,034	5,049	
27	850	839	839	
36	2,834	2,935	2,776	
42	136	135	135	
Total	**481,042**	**416,922**	**481,390**	**1,472**

SSA Phase 3 Numbers Report - 5/13/2015 - 5/12/2016
Cooper Road, Wallace, and Broadmoor Basins

Pipe Diameter	Cleaning (linear ft)	CCTV (linear ft)	Smoke (linear ft)	Manhole Inspections
6 or less	5,993	5,806		
8	151,257	137,493		
10	37,725	35,323		
12	10,163	8,501		
15	342	342		
18	955	955		
Total	**206,434**	**188,421**	**0**	**0**

ATTACHMENT 4

REMEDIATION MEASURES PLAN, SSA PHASE 1 [RMP1]

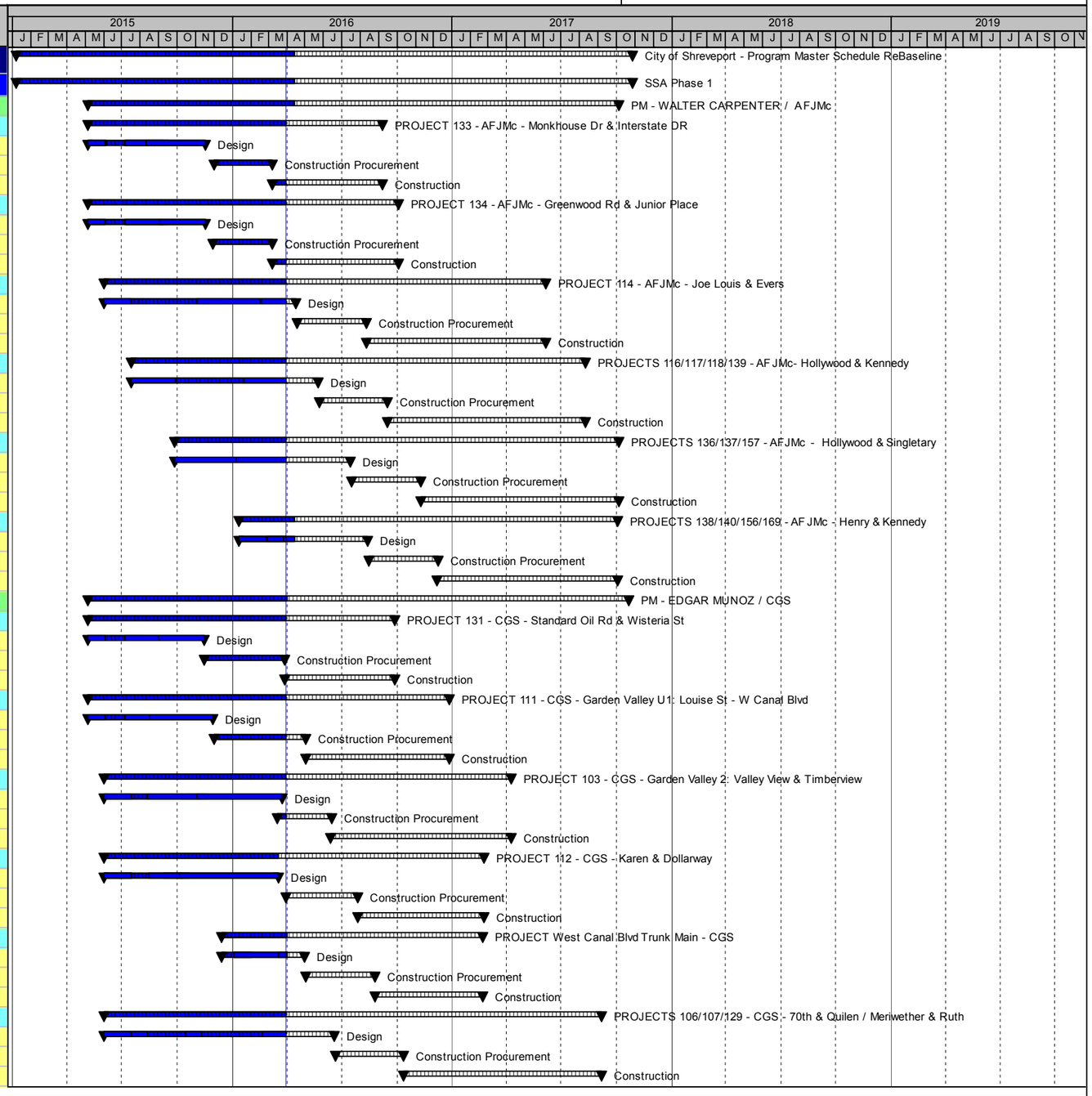
PROJECT SCHEDULES

26-Apr-16 13:40

The City of Shreveport, Louisiana

Phase 1 Start Date: 06-Jan-15
Phase 1 Finish Date: 28-Oct-17

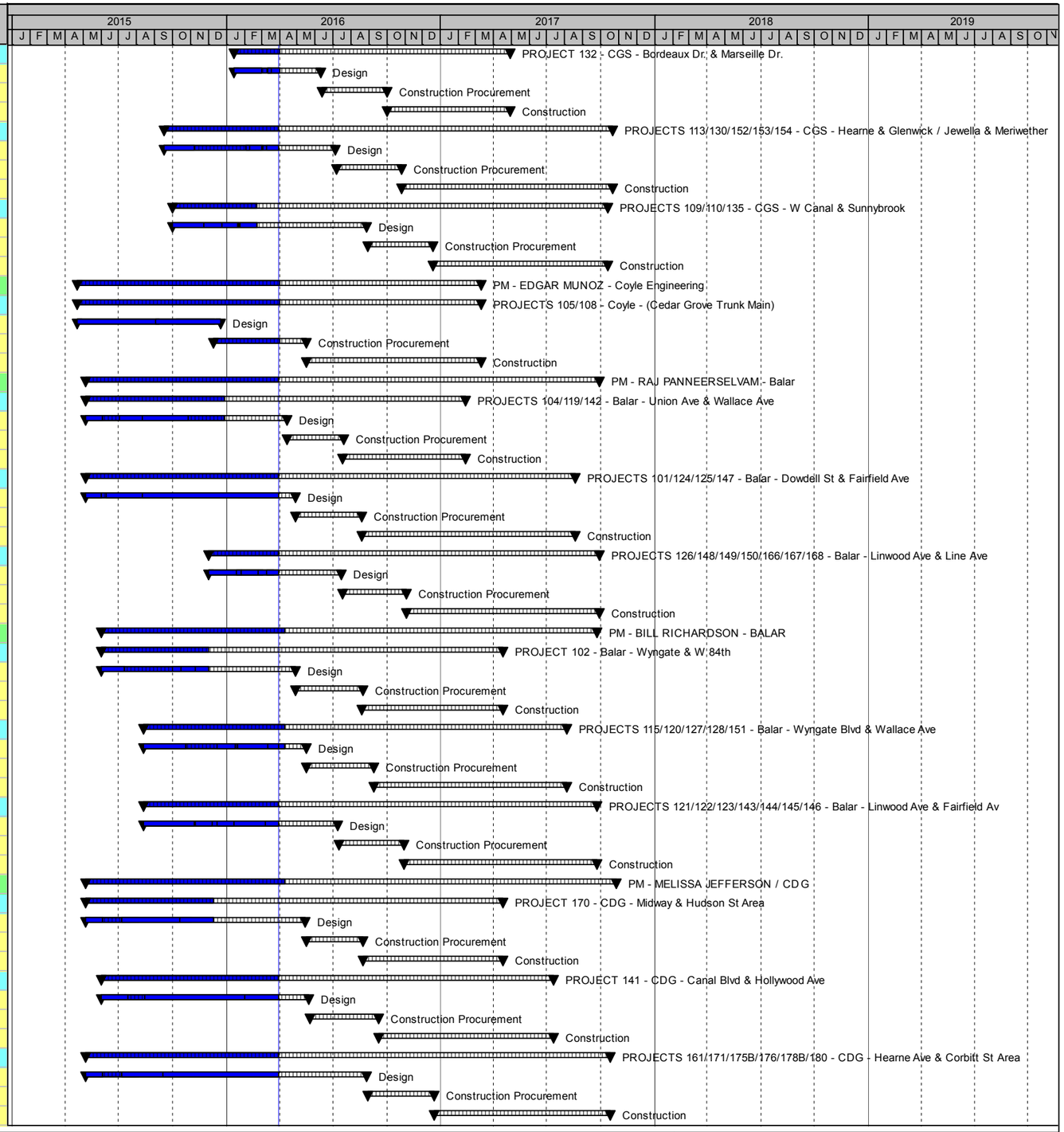
Activity ID	Description	Work Dys	Early Start	Early Finish
City of Shreveport - Program Master Schedule ReBaseline		1026	06-Jan-15 A	28-Oct-17
SSA Phase 1		1026	06-Jan-15 A	28-Oct-17
PM - WALTER CARPENTER / AFJMc		867	06-May-15 A	04-Oct-17
PROJECT 133 - AFJMc - Monkhouse Dr & Interstate DR		495	06-May-15 A	06-Sep-16
Design		123	06-May-15 A	18-Nov-15 A
Construction Procurement		123	01-Dec-15 A	07-Mar-16 A
Construction		180	07-Mar-16 A	06-Sep-16
PROJECT 134 - AFJMc - Greenwood Rd & Junior Place		525	06-May-15 A	03-Oct-16
Design		123	06-May-15 A	18-Nov-15 A
Construction Procurement		124	30-Nov-15 A	07-Mar-16 A
Construction		210	07-Mar-16 A	03-Oct-16
PROJECT 114 - AFJMc - Joe Louis & Evers		742	02-Jun-15 A	05-Jun-17
Design		239	02-Jun-15 A	15-Apr-16
Construction Procurement		115	18-Apr-16	10-Aug-16
Construction		300	10-Aug-16	05-Jun-17
PROJECTS 116/117/118/139 - AFJMc- Hollywood & Kennedy		675	16-Jul-15 A	09-Aug-17
Design		160	16-Jul-15 A	23-May-16
Construction Procurement		114	24-May-16	14-Sep-16
Construction		330	14-Sep-16	09-Aug-17
PROJECTS 136/137/157 - AFJMc - Hollywood & Singletary		731	28-Sep-15 A	04-Oct-17
Design		197	28-Sep-15 A	15-Jul-16
Construction Procurement		115	18-Jul-16	09-Nov-16
Construction		330	09-Nov-16	04-Oct-17
PROJECTS 138/140/156/169 - AFJMc - Henry & Kennedy		629	12-Jan-16 A	02-Oct-17
Design		163	12-Jan-16 A	12-Aug-16
Construction Procurement		115	15-Aug-16	07-Dec-16
Construction		300	07-Dec-16	02-Oct-17
PM - EDGAR MUNOZ / CGS		883	06-May-15 A	20-Oct-17
PROJECT 131 - CGS - Standard Oil Rd & Wisteria St		523	06-May-15 A	26-Sep-16
Design		112	06-May-15 A	16-Nov-15 A
Construction Procurement		139	16-Nov-15 A	28-Mar-16 A
Construction		180	28-Mar-16 A	26-Sep-16
PROJECT 111 - CGS - Garden Valley U1: Louise St - W Canal Blvd		586	06-May-15 A	27-Dec-16
Design		132	06-May-15 A	30-Nov-15 A
Construction Procurement		154	01-Dec-15 A	02-May-16
Construction		240	02-May-16	27-Dec-16
PROJECT 103 - CGS - Garden Valley 2: Valley View & Timberview		677	02-Jun-15 A	08-Apr-17
Design		142	02-Jun-15 A	24-Mar-16 A
Construction Procurement		99	16-Mar-16 A	13-Jun-16
Construction		300	13-Jun-16	08-Apr-17
PROJECT 112 - CGS - Karen & Dollarway		639	02-Jun-15 A	22-Feb-17
Design		127	02-Jun-15 A	18-Mar-16 A
Construction Procurement		120	31-Mar-16	28-Jul-16
Construction		210	28-Jul-16	22-Feb-17
PROJECT West Canal Blvd Trunk Main - CGS		431	14-Dec-15 A	20-Feb-17
Design		111	14-Dec-15 A	29-Apr-16
Construction Procurement		116	02-May-16	25-Aug-16
Construction		180	25-Aug-16	20-Feb-17
PROJECTS 106/107/129 - CGS - 70th & Quilen / Meriwether & Ruth		828	02-Jun-15 A	06-Sep-17
Design		382	02-Jun-15 A	17-Jun-16
Construction Procurement		115	20-Jun-16	12-Oct-16
Construction		330	12-Oct-16	06-Sep-17



Actual Work
Summary

EPA Consent Decree Master Schedule - PHASE 1 SORT
Page 1 of 3

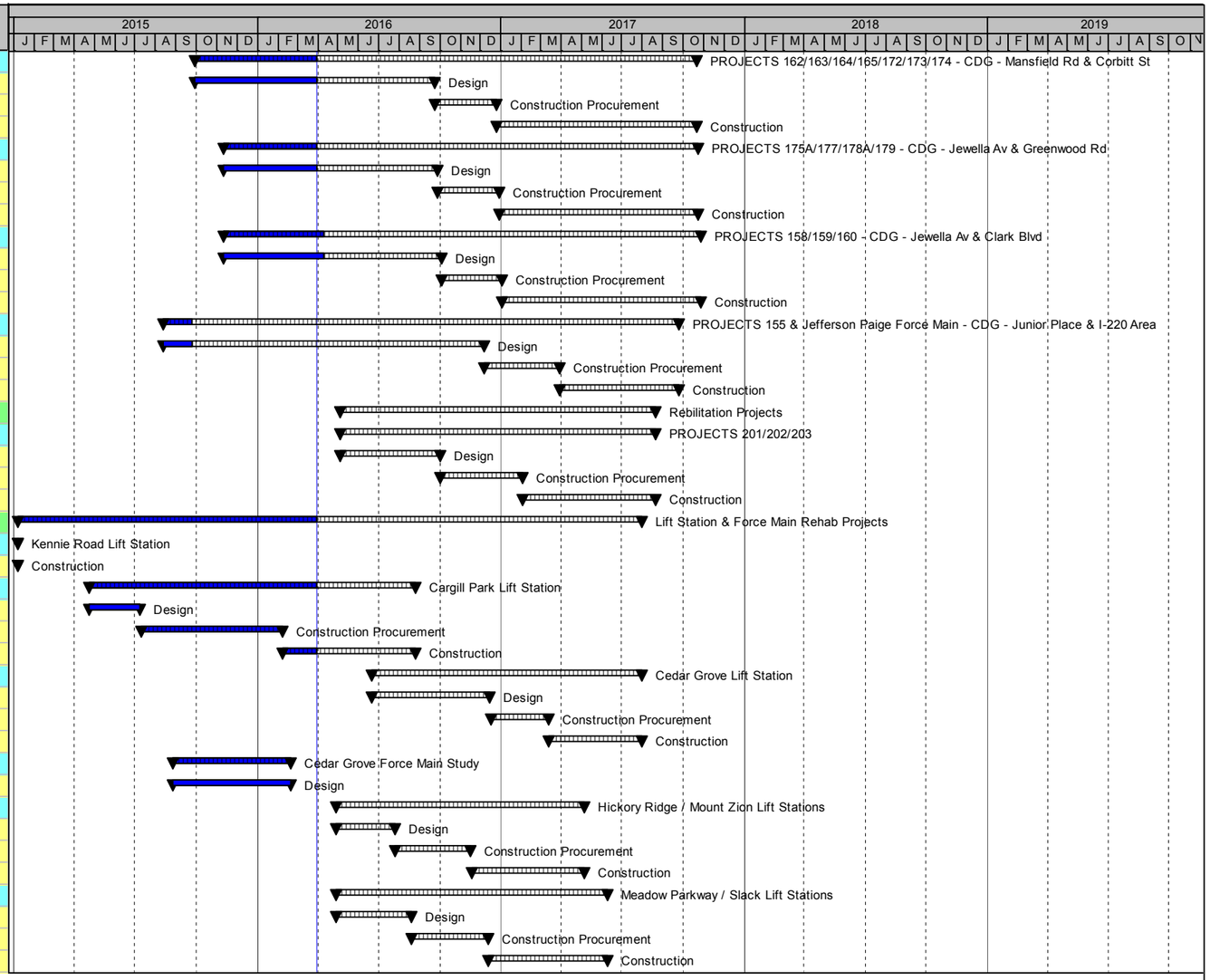
Activity ID	Description	Work Dys	Early Start	Early Finish
PROJECT 132 - CGS - Bordeaux Dr. & Marseille Dr.		472	13-Jan-16 A	28-Apr-17
Design		107	13-Jan-16 A	10-Jun-16
Construction Procurement		111	13-Jun-16	01-Oct-16
Construction		210	01-Oct-16	28-Apr-17
PROJECTS 113/130/152/153/154 - CGS - Hearne & Glenwick / Jewella & Meriwether		747	17-Sep-15 A	20-Oct-17
Design		189	17-Sep-15 A	05-Jul-16
Construction Procurement		113	06-Jul-16	26-Oct-16
Construction		360	26-Oct-16	20-Oct-17
PROJECTS 109/110/135 - CGS - W Canal & Sunnybrook		732	01-Oct-15 A	13-Oct-17
Design		221	01-Oct-15 A	26-Aug-16
Construction Procurement		112	29-Aug-16	18-Dec-16
Construction		300	18-Dec-16	13-Oct-17
PM - EDGAR MUNOZ - Coyle Engineering		656	21-Apr-15 A	11-Mar-17
PROJECTS 105/108 - Coyle - (Cedar Grove Trunk Main)		656	21-Apr-15 A	11-Mar-17
Design		149	21-Apr-15 A	22-Dec-15 A
Construction Procurement		160	09-Dec-15 A	16-May-16
Construction		300	16-May-16	11-Mar-17
PM - RAJ PANNEERSELVAM - Balar		861	06-May-15 A	28-Sep-17
PROJECTS 104/119/142 - Balar - Union Ave & Wallace Ave		633	06-May-15 A	12-Feb-17
Design		225	06-May-15 A	13-Apr-16
Construction Procurement		96	14-Apr-16	18-Jul-16
Construction		210	18-Jul-16	12-Feb-17
PROJECTS 101/124/125/147 - Balar - Dowdell St & Fairfield Ave		820	06-May-15 A	18-Aug-17
Design		235	06-May-15 A	27-Apr-16
Construction Procurement		114	28-Apr-16	19-Aug-16
Construction		365	19-Aug-16	18-Aug-17
PROJECTS 126/148/149/150/166/167/168 - Balar - Linwood Ave & Line Ave		667	02-Dec-15 A	28-Sep-17
Design		157	02-Dec-15 A	15-Jul-16
Construction Procurement		109	18-Jul-16	03-Nov-16
Construction		330	03-Nov-16	28-Sep-17
PM - BILL RICHARDSON - BALAR		846	02-Jun-15 A	24-Sep-17
PROJECT 102 - Balar - Wyngate & W 84th		685	02-Jun-15 A	16-Apr-17
Design		229	02-Jun-15 A	27-Apr-16
Construction Procurement		115	28-Apr-16	20-Aug-16
Construction		240	20-Aug-16	16-Apr-17
PROJECTS 115/120/127/128/151 - Balar - Wyngate Blvd & Wallace Ave		737	12-Aug-15 A	03-Aug-17
Design		202	12-Aug-15 A	16-May-16
Construction Procurement		115	17-May-16	08-Sep-16
Construction		330	08-Sep-16	03-Aug-17
PROJECTS 121/122/123/143/144/145/146 - Balar - Linwood Ave & Fairfield Av		789	12-Aug-15 A	24-Sep-17
Design		239	12-Aug-15 A	08-Jul-16
Construction Procurement		112	11-Jul-16	30-Oct-16
Construction		330	30-Oct-16	24-Sep-17
PM - MELISSA JEFFERSON / CDG		891	06-May-15 A	28-Oct-17
PROJECT 170 - CDG - Midway & Hudson St Area		697	06-May-15 A	17-Apr-17
Design		247	06-May-15 A	13-May-16
Construction Procurement		97	16-May-16	20-Aug-16
Construction		240	21-Aug-16	17-Apr-17
PROJECT 141 - CDG - Canal Blvd & Hollywood Ave		772	02-Jun-15 A	12-Jul-17
Design		246	02-Jun-15 A	20-May-16
Construction Procurement		117	23-May-16	16-Sep-16
Construction		300	16-Sep-16	12-Jul-17
PROJECTS 161/171/175B/176/178B/180 - CDG - Hearne Ave & Corbitt St Area		879	06-May-15 A	16-Oct-17
Design		320	06-May-15 A	26-Aug-16
Construction Procurement		115	29-Aug-16	21-Dec-16
Construction		300	21-Dec-16	16-Oct-17



Actual Work
Summary

EPA Consent Decree Master Schedule - PHASE 1 SORT

Activity ID	Description	Work Dys	Early Start	Early Finish
PROJECTS 162/163/164/165/172/173/174 - CDG - Mansfield Rd & Corbitt St		759	29-Sep-15 A	20-Oct-17
Design		253	29-Sep-15 A	22-Sep-16
Construction Procurement		94	23-Sep-16	25-Dec-16
Construction		300	25-Dec-16	20-Oct-17
PROJECTS 175A/177/178A/179 - CDG - Jewella Av & Greenwood Rd		723	11-Nov-15 A	24-Oct-17
Design		228	11-Nov-15 A	27-Sep-16
Construction Procurement		93	28-Sep-16	29-Dec-16
Construction		300	29-Dec-16	24-Oct-17
PROJECTS 158/159/160 - CDG - Jewella Av & Clark Blvd		655	11-Nov-15 A	28-Oct-17
Design		184	11-Nov-15 A	03-Oct-16
Construction Procurement		91	04-Oct-16	02-Jan-17
Construction		300	02-Jan-17	28-Oct-17
PROJECTS 155 & Jefferson Paige Force Main - CDG - Junior Place & I-220 Area		784	12-Aug-15 A	25-Sep-17
Design		337	12-Aug-15 A	05-Dec-16
Construction Procurement		115	06-Dec-16	30-Mar-17
Construction		180	30-Mar-17	25-Sep-17
Rebilitation Projects		473	05-May-16	20-Aug-17
PROJECTS 201/202/203		473	05-May-16	20-Aug-17
Design		149	05-May-16	30-Sep-16
Construction Procurement		124	30-Sep-16	01-Feb-17
Construction		200	02-Feb-17	20-Aug-17
Lift Station & Force Main Rehab Projects		937	06-Jan-15 A	31-Jul-17
Kennie Road Lift Station		0	06-Jan-15 A	06-Jan-15 A
Construction		0	06-Jan-15 A	06-Jan-15 A
Cargill Park Lift Station		624	23-Apr-15 A	25-Aug-16
Design		54	23-Apr-15 A	09-Jul-15 A
Construction Procurement		389	10-Jul-15 A	08-Feb-16 A
Construction		200	08-Feb-16 A	25-Aug-16
Cedar Grove Lift Station		407	20-Jun-16	31-Jul-17
Design		179	20-Jun-16	15-Dec-16
Construction Procurement		88	16-Dec-16	13-Mar-17
Construction		140	14-Mar-17	31-Jul-17
Cedar Grove Force Main Study		120	27-Aug-15 A	19-Feb-16 A
Design		120	27-Aug-15 A	19-Feb-16 A
Hickory Ridge / Mount Zion Lift Stations		374	27-Apr-16	05-May-17
Design		90	27-Apr-16	25-Jul-16
Construction Procurement		114	26-Jul-16	16-Nov-16
Construction		170	17-Nov-16	05-May-17
Meadow Parkway / Slack Lift Stations		409	27-Apr-16	09-Jun-17
Design		80	27-Apr-16	18-Aug-16
Construction Procurement		115	19-Aug-16	11-Dec-16
Construction		180	12-Dec-16	09-Jun-17



Actual Work
Summary

EPA Consent Decree Master Schedule - PHASE 1 SORT

ATTACHMENT 5

NOTES DOCUMENTING

PROGRESS MEETINGS with EPA REGION 6

NOTES FROM MEETING WITH EPA REGION 6

10/21/15 1000 - 1130 DALLAS, TX. SWORDFISH CONFERENCE ROOM

See attached sign-in sheet.

Tony Loston [TL] introduced Darlene Whitten-Hill [DW-H]. Darlene is an Environmental Protection Specialist. Submittals to EPA will be received and processed by Darlene.

Meeting attendees introduced themselves to Darlene and briefly explained their roles.

Barbara Featherston [BF] and Autumn Permenter [AP] reviewed the Red River flooding and impact on the Shreveport sewer system. The river crested at 37.5 feet, approximately 22 feet above normal. At various stages of the flood the North Regional WWTP was accessible by helicopter, boat or jacked-up truck. Average daily flow through North Regional is 3 mgd; sustained flows during the flood were 70 mgd. The Stoner Pump Station had to be surrounded by a makeshift levee to prevent it from flooding. Smoke testing of the gravity collection system was suspended until the ground water level receded. Flooding delayed construction of some W&S Capital projects. This may impact contractors available to perform Consent Decree projects.

Sewer System Assessment, Phase 2 is approximately 67% complete both in gravity line cleaning and inspection and Manhole [MH] inspection. The City is attempting to CCTV 100% of the gravity lines in this phase. Project team has applied lessons learned during the Phase 1 work. Contractor is required to complete work in a sub-basin before beginning work in the next sub-basin. At the beginning of the Phase 2 work issues which could impact completion because of the long lead times required were identified. Work began immediately to address these issues so as not to delay the completion of Phase 2. This work included locating and uncovering manholes, point repairs, Right of Way clearing, roadway permits, railroad permits, and obtaining rights of entry to private property.

Autumn Permenter [AP] asked about EPA approval of deliverables. TL stated that, other than the selection of a Design Storm, the deliverables were logged in as received and reviewed, but approval was not to be expected. Only comments or questions would be returned.

Joe Dollerschell [JD] distributed and reviewed a schedule of the design projects from the Remediation Measures Plan [RMP], Phase 1. There are a total of 55 projects being designed by the 4 MSA firms. The first projects will advertise in November or December and bids will be opened in January 2016. There are concerns developing with respect to construction of these projects:

1] Capacity of local contractors to handle the work. Recently bid projects have received no bids or bids higher than the designers Estimate of Construction Cost.

2] Coordination with utilities – most of the gravity sewer lines are not under roadways but located between the curb and property line with other utilities.

3] Increases to estimated construction costs during the design process. JD distributed a table listing all 55 projects with the RMP construction cost estimates and estimates from the Preliminary Design Reports, 60 and 90 percent complete design documents to illustrate how the construction costs were increasing. JD pointed out that the City will not know for sure how the costs have increased until they bid several projects. BF said the City is very concerned about the

potential for significant cost increases. Some estimated costs are 48% higher than original estimates.

BF stated that Shreveport mayor has scheduled a meeting with SWEPCO – the electric utility- to discuss coordination issues and Consent Decree deadlines.

Tyler Comeaux [TC] described a call he received from DEQ. DEQ wishes to upload deliverables to DEQ website, but is only able to upload PDFs. After some discussion TL stated that EPA did not need videos to be part of the deliverables. Future deliverables to both EPA and DEQ will be PDF documents. JD pointed out the Consent Decree requires the City to provide all contractors a copy of the Consent Decree and asked TL if the City could provide General Contractors with a PDF copy of the Consent Decree via e-mail. TL approved this procedure.

BF stated that asset management implementation is taking longer than expected. Shreveport is starting with the sewer system and the water system will follow. Shreveport is also correcting the sewer GIS based on the SSA work and has a contract to update the water system GIS.

Lloyd Fitzpatrick [LF] stated that some elements of the CMOM plan are under review and will be revised. CMOM document is treated as a 'living document' and changes and additions are anticipated. SOP for investigation of SSOs will require inspection but not CCTV of SSO with 24 hours. Annual Report on the CMOM plan will be included as part of the Consent Decree Annual Report.

Shreveport is purchasing equipment and adding personnel to maintain the collection system more effectively and protect the investment being made in the system. The City normally spends $1 million each year on emergency repairs but has already spent $5 million in 2015 – 250 emergency repairs this year. The City has a $120 million bond issue on the November agenda for approval by the State Bond Commission.

Discussion of private property issues followed. Smoke testing is not identifying many source of private property I/I other than missing cleanout caps. City has the authority to issue 10 day letters requiring a home owner to repair the service lateral within 10 days. If the City judges that 10 days is too long a period, it can pull the water meter until repairs are made.

Master planning for both the WCTS and WWTPs is underway. Capacity assessment for both the WCTS and WWTPs were begun prior to the Consent Decree deadline of September 12, 2015 and will be completed and submitted to EPA prior to the March 12, 2016 deadline. Projects which only increase capacity are being reviewed very thoroughly to avoid overbuilding of capacity.

AP provided TL samples of public information materials developed for the City's fats, oils and grease [FOG] program including a container to be used for home grease disposal.

The next meeting at Region 6 will be scheduled for April 2016 after the submittal of the capacity assessments reports.

HANDOUTS:

Outline and Talking Points

RMP Phase 1 Schedule

Preliminary Construction Cost Estimates for RMP Phase 1

NOTES FROM MEETING WITH EPA REGION 6

04/28/16 1000 - 1130 DALLAS, TX. REGIONAL COUNSEL CONFERENCE ROOM

See attached sign-in sheet.

Barbara Featherston [BF] introduced individuals attending their first (or last) Shreveport Consent Decree Progress Meeting with EPA. Keith Oakes is a Shreveport employee in the Water & Sewerage Department who is the Project Administrator for the Consent Decree and will monitor operations issues associated with the Consent Decree and field complaints. She also stated that the Program Manager – CDM Smith – is changing Program Managers. Joe Dollerschell [JD] is transitioning out of the position and Rick Marc-Aurele [R M-A] is transitioning into the position.

BF stated that Shreveport is encountering operational and construction challenges due to weather events. 2015 brought 2 Red River flood events, and a 100 year rain event occurred in March 2016.

Autumn Permenter [AP] asked if e-mail notifications are sufficient. Tony Loston / EPA Region 6 [TL] replied that they were adequate notification, but asked that future e-mails be copied to Darlene Whitten-Hill (whitten-hill.darlene@epa.gov). Lloyd Fitzpatrick [LF] stated that all e-mail notifications to EPA will be a part of the Annual Reports.

Tyler Comeaux [TC] displayed 5 maps which delineate the areas included in each SSA phase.

SSA Phase 2 included 1,080,000 linear feet [LF] of gravity sewer and 2653 manholes, compared to initial estimates of 1 million feet of pipe and 2500 manholes based on GIS. CES was able to CCTV 820,000 LF of gravity sewer. The number of defects identified in the Phase 2 area is very close to the number of defects identified in the Phase 1 area. Phase 2 included 15,000 LF of 24 inch pipe which is constantly surcharged. This gravity sewer will be replaced because CES is unable to smoke test or CCTV this portion of the gravity sewer. AP stated that EPA was notified of this decision by e-mail concerning the Morris Park area.

TC stated that the SSA Phase 2 Report will be submitted to EPA early summer 2016 followed 30 days later by the Phase 2 Remediation Measures Plan.

BF stated that Design Consultants were selected for the Phase 2 RMP work on April 27, 2016.

TC stated that CES has begun work on SSA Phase 3. 190,000 LF have been cleaned and 170,000 LF have been CCTV'd ahead of schedule. Preliminary results indicate that there are fewer defects in the Phase 3 area than in the Phase 1 and Phase 2 areas.

R M-A displayed a map of the Phase 1 RMP area and explained that the PM was aggregating projects in order to bid fewer, larger projects in an effort to attract regional contractors. The number of projects was reduced from 80 to 55 and now to 29 projects. Project mix now includes projects in the $5 to $10 million range.

The utility coordination and relocation process has been improved. PM is scheduling Plan-In-Hand field reviews when plans are 60% complete. Utilities are becoming engaged in this process.

There are 3 active construction projects and 2 projects almost to construction in the Phase 1 area. On average 5 projects will be bid each month during May, June and July. There will be 20 to 25 projects

under construction by the 3rd quarter of 2016. PM is scheduling "neighborhood huddles" prior to construction beginning.

TL asked how the City would handle future work. BF explained that City was determined to complete SSA and RMP work before the CD mandated deadlines in order to allow 30 to 36 months for construction rather than the 24 months in the Phase 1 schedule.

Early project bids were 30% to 50% over estimate; recent bids were 8% to 10% over estimate.

PM is actively soliciting outside contractors within a 350 mile radius. Regular e-mail communication is a part of this process.

Masterplan work is underway for both the Waste Water Treatment Plants [WWTPs] and Collection System.

Capacity Assessment Report was submitted to EPA on schedule. Preparation of the Remediation Measures Plan for the WWTPs is underway and will be submitted prior to the July 12, 2016 deadline. Remediation Measures for the collection system are included with each SSA phase.

R M-A reviewed the current cost of the Phase 1 RMP projects and the schedule for this work. PM has developed a Program Delivery Master Schedule in Primavera. Completion date for Phase 1 RMP is scheduled to be October 28, 2017. This date meets the CD deadline, but there is virtually no float in the schedule. R M-A stated that they have the tools and people to meet the deadline.

R M-A asked TL if there was any part of the cost estimate or schedule that he would like to explore in detail. TL stated that EPA keeps review general – the big picture.

BF stated that City would have a more informed assessment of Phase 1 construction after the summer. BF stated that we would like to discuss "what is complete" at a later date.

TC displayed a copy of the Emergency Response Plans which have been developed to assist Sewer Lift Station personnel to restore pumping capacity within the Critical Response Time for each station.

TL stated that EPA receives media inquiries concerning the Shreveport Consent Decree. He responds that the City is on schedule and suggests the Clean Water Shreveport website for additional information.

TL requested that all future deliverables be directed to Darlene – Whitten-Hill. She will log receipt of the deliverable and forward to TL. TL stressed the importance of including mail codes in addresses to assure prompt delivery.

Darlene Whitten Hill 6ENWC

Anthony Loston 6ENWM

BF next discussed private property issues. The most common issue is that the cleanout cap has been removed. This is often done so that SSO will occur outdoors rather than inside a structure. This issue will be addressed once the main sewer is upgraded. City has cut off water where appropriate. City is replacing wye connection and service line to the limits of the trench. City explored replacing service to the property line, but this proved to be infeasible.

Make Peace with Your Pipes video was played. PM provide a handout containing community outreach efforts. FOG control poster is displayed at community meetings and cans for collecting grease are displayed and distributed. Website hits have increased form single digits to more than 200 per day.

Next meeting at Region 6 will be scheduled for mid-August or after Labor Day, after SSA Phase 2 Report and Phase 2 RMP have been submitted, more projects have been bid and multiple projects are under construction.

HANDOUTS:

Meeting Agenda

Maps of SSA Phase 1, 2, 3, 4 and 5

Construction Cost Estimates for RMP Phase 1 Projects

RMP Phase 1 Schedule

Outline of Community Outreach Efforts