



# Public Works

2017 - 2018

# Work Orders

- ▶ 2016 8,591 Work Orders
- ▶ 2017 10,563 Work Orders
  - ▶ 4 Eastbank Road Crews
  - ▶ 4 Westbank Road Crews
  - ▶ 3 Drainage Crews
    - ▶ 208 work days – approx. 5 Work Orders per day per crew
- ▶ 2018 9,382 Work Orders
  - ▶ Since Nov 5th will equate to approx. 11,256 Work Orders



# Work Orders by District

	<u>2017</u>	<u>2018</u>
▶ District 1	1,270	1,116
▶ District 2	1,244	1,237
▶ District 3	973	838
▶ District 4	1,383	1,330
▶ District 5	1,654	1,716
▶ District 6	1,799	1,447
▶ District 7	1,672	1,406

# Public Works Organization Changes

- ▶ Work Planning Process
  - ▶ Weekly work plans due Monday
  - ▶ Daily work schedule
  - ▶ Overtime justification
  - ▶ Monday Actual Work Performed Report
  - ▶ Wednesday Planning meetings



# Wednesday Planning Meeting

- ▶ Project review
  - ▶ Review project: updates, status, details, obstacles
- ▶ Supervisors meeting
  - ▶ Work update and review
  - ▶ Work group talent alignment (employee development)
  - ▶ Resource alignment (manpower and equipment needs)
  - ▶ Project Development

# Drainage

Project:	Manpower:	Equipment:	Duration:	Estimated Start Date:
UPPER GUIDELEVEE CANAL	2 GUYS	SMALL MARSH BUGGY	45 DAYS	ONGOING
AMA PUMP STATION	8 GUYS	EXCAVATOR	1 DAY	???
WILLOWDALE INTAKE CANAL LEVEE	8 GUYS	EXCAVATOR	5 DAYS	???
SUGAR HOUSE ROAD CANAL	2 GUYS	LONG ARM	30 DAYS	FINISHING PHASE 2
HAHN ST DITCH	2 GUYS	EXCAVATOR	6 DAYS	PLAN TO START 1-26-18
END OF COURT HOUSE LANE	6 GUYS	EXCAVATOR CHIPPER ?	?? DAYS	LOOKING TO START AFTER HACKBERRY
40 ARPERT CANAL HAHNVILLE	2 GUYS	LARGE MARSH BUGGY	???	WILL START ON 1-26-18
80 ARPERT CANAL FROM I 310 TO THE PUMP STATION	2 GUYS	LARGE MARSH BUGGY	60 DAYS	ONGOING
INSTALLING CULVERTS THIRD DITCH ORMOND BLVD	14 GUYS	EXCAVATOR DUMP TRUCKS	14 DAYS	DRESSING UP THE CATCH BASINS
INSTALL CULVERTS ON THE SECOND CROSS DITCH ON ORMOND	14 GUYS	EXCAVATOR DUMP TRUCKS	10 DAYS	CATCH CASINS NEED TO BE DONE
CANAL OFF OF HWY 3160	2 GUYS	SMALL MARSH BUGGY	14 DAYS	WILL START AFTER UPPER GUIDE LEVVE
REMOVING 36" PUMP FROM SUNSET	8 GUYS	EXCAVATOR,CHERRY PICKER,DUMP TRUCKS	3 DAYS	COMPLETE



PUBLIC WORKS CARPENTER CREW			
DATE 3/21/18			
CARPENTER	W / O #	LOCATION / ADDRESS	DESCRIPTION OF WORK
ADAM VU	E-18-39486	316 CAROLYN DR DESTREHAN	POUR 1 DRIVEWAY & 2 CATCHBASINS
ROSS AUTHEMENT		10375 AIRLINE HWY ST ROSE	WRECK FORMS
RICHARD TRACY		338 CAROLYN DR DESTREHAN	POUR 2 DRIVEWAYS
MASON BOYER	E-18-39153	115 CANVASBACK DR ST ROSE	WRECK FORMS
MARK EDWARDS		304 /316 CAROLYN DR DESTREHAN	POUR CATCHBASINS & DRIVEWAYS
TY HILLS		176 KENNEDY ST AMA	WRECK FORMS
JASON FRICKEY		304 CAROLYN DR DESTREHAN	POUR 4 CATCHBASINS
ASHTON WHANN	E-18-39153	115 CANVASBACK DR ST ROSE	WRECK FORMS
CHECK JOBS	E-18-38201	3798 TARA DR DESTREHAN	REPLACE SIDEWALK BY DRIVE
	W-18-38769	215 BRADWALL ST LULING	INSTALL CATCHBASIN & SIDEWALK
	E-18-38788	704 TURTLE CREEK LN SAINT ROSE	REPLACE SIDEWALK (WASTEWATER)
	E-18-38881	NORMANDY & TURTLE CREEK LN ST ROSE	INSTALL 4 HANDICAP SIDEWALKS
	E-18-38882	MOCKINGBIRD & NORMANDY DR ST ROSE	INSTALL 4 HANDICAP SIDEWALKS
	E-18-39156	150 JAMES DR EAST ST ROSE	REPLACE STREET PANELS MIDDLE OF ST. #43
	E-18-39157	150 WIDGEON DR ST ROSE	REPLACE CATCHBASIN TOP IN STREET #27
	E-18-39158	110 WIDGEON DR ST ROSE	REPLACE STREET BY CATCHBASIN # 56
		262 GOODCHILDREN ST BOUTTE	REPLACE DRIVEWAY/SIDEWALK/HEADWALL
		211 MARYLAND DR LULING	REPLACE DRIVEWAY & 2 CATCHBASINS
	E-18-39490	14564 RIVER RD NEW SARPY	INSTALL 4 FOOT SIDEWALK BY ANNEX

## PUBLIC WORKS DAILY WORK SCHEDULE

EAST BANK ROAD CREWS

March 21, 2018

<u>AREA</u>	<u>AREA FOREMAN</u>	<u>DESCRIPTION OF WORK</u>
6	Dominic Brown (Upgraded)	Norco/Montz Allemand Street in Norco Replacing culverts at intersection of Payne &
5	Curtis Robinson	St. Rose Ormond. Change culvert and dig a swale on golf course in
1, 2, 3	Je'Quain Robinson	Destrehan Ormond. Change culvert and dig a swale on golf course in
3, 6	Irvin Fauchaux	New Sarpy &Allemand Street in Norco Replacing culverts at intersection of Payne



PUBLIC WORKS DAILY WORK SCHEDULE

WEST BANK ROAD CREWS

	<u>EMPLOYEE NAME</u>	
1	Brian Henry	Sweeping Adams St.
2	John White	Finish dressing up on Kennedy St.
4	Toby Schmill	Repairing drainage culvert at 719 Ayo St.; Cut grass behind Magnolia Manor
7	Norlin Taylor	Sweeping on Oak St.

# Telemetry Group

Thursday, September 17, 2015

9/17/2015	-	-
<u>Employees</u>	<u>Location &amp; Brief Description</u>	<u>Est. Time</u>
Terry Breaux	Working on Waste Water Plant Upgrade. Training	10
Meme Robbins	Programming for Wastewater Lift Stations. Training	10
Travis Sequeira	Programming. Training	10
Wade Dufrene	Programming cameras. Working on drawings. Training	10
	†	
David Williams	Troubleshooting an issues at Tibby Pump Station. Training	10
Brandon Lowry (Helper)	Assisting at Tibby Pump Station. Training	10
Andrew Howard	Working on panels at 3127 Lift Station. Training	10
Dean Champagne (Helper)	Assisting with 3127 Lift Station. Training	10
Bobby Smith	Ordering parts and working on Electrician's Warehouse inventory. Putting together solar panel. Training	10
Evan Barbier (Helper)	Assisting with inventory and solar panel. Training	10
Joe Miller	Generator install at Paradis Pump Station. Troubleshooting issues with engine at Destrehan I Pump Station. Training	10
Blake Schexnaydre (Helper)	Assisting at Paradis and Destrehan I Pump Stations. Training	10
Blake Schexnaydre (Helper)	Assisting at Destrehan I Pump Station.	10



Date		3/19/2018	
East Bank			Detra Thompson - Leadman
		Grass Tractors	(504) 559-8647
		cutting in Destrehan areas 9,10,11, from 6:30to4:00	
		Grounds Keepers	
		cutting and weeding in destrehan areas 1,2,3,4, form 6:30to11:00 areas 6,7,8,9,10,11, from 11:30to4:00	
West Bank			Adrian Petetant - Leadman
		Grass Tractors	(504) 376-3618
		cutting in old luling area form judge edward dufresne pkwy to gassen st from 6:30to4:00	
		Grounds Keepers	
		cutting and weeding in Willowdale and mimosa areas from 6:30to4:00	

SUNSET DRAINAGE DISTRICT				
3/1/2018 THRU 3/31/2018				
<u>Employees</u>	-	<u>Est. Time</u>	<u>Date Received</u>	<u>Date Completed</u>
Patrick Leblance	Cutting right -of -ways	10	3/21/2018	
Armond Bourque	Cutting right -of -ways	10	3/21/2018	
Aaron Friloux	Cutting right -of -ways	10	3/21/2018	
OPEN				
	PLANNED WORK FOR SUNSET			
	Completed work			
	Top end rebuild on the #1 Engine	2 Days	8/7/2017	8/9/2017
	Pull 36" portable, Install #3 pump, Pull #2 pump and install 36"portable	10 Days	4/10/2017	4/14/2017
	BLD will be setting up on location, they will be pulling the portable and installing	3 days	11/11/2017	11/13/2017



# Employee

- ▶ Generator Maintenance Training
- ▶ Delgado Millwright Training
- ▶ Upgrade 14 employee job descriptions

# Public Works Organization Changes

- ASSET MANAGEMENT
  - Asset tracking
  - Work order development
  - Preventive Maintenance
  - Repetitive failures
  - Root cause analysis
  - Mitigation



# RCA Problem Statement

## Step 1. Define the Problem

<b>What</b>	Problem(s)	Failure to Start
<b>When</b>	Date	August 12, 2017
	Time	6:00 PM
	Different, unusual, unique	
<b>Where</b>	Facility, site	Old Kellogg Pump Station
	Unit, area, equipment	Pumps #1 and #2 not working
	Task being performed	
<b>Impact to the Goals</b>	0	
	Safety	
	Environmental	
	Customer Service	
	Regulatory	
	Production/ Schedule	
	Property/ Equipment	Pump out of service
	Labor/ Time	
	Frequency	
		This incident \$0
		Annualized Cost \$0

# RCA Logic Tree

Failure to start - Pumps #1 and #2 not working

Step 2, Analysis

Cause Map



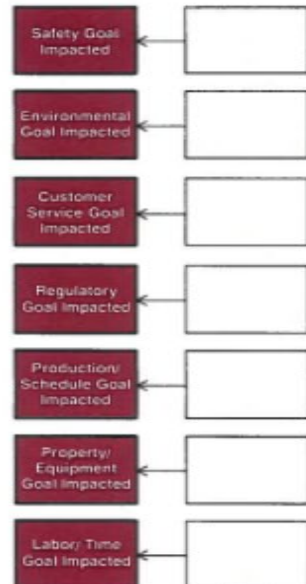
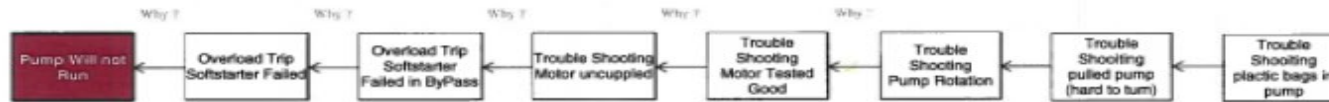
AND

OR

AND/OR



Basic Cause-and-Effect Relationship



# RCA Mitigation Action

## Step 3. Solutions

### Corrective Actions to be implemented

Since solutions control specific causes, every action item (solution) should correspond to a cause from the Cause Map. This provides continuity from the analysis to the action items. Only those causes with action items (solutions) are listed in this table.

No.	Action Item	Cause	Owner(s) (Names)	Date Due	Status- Completed	Notes	Verification (Check of effectiveness)
1	Install Debris Basket in sump	Pumps #1 and #2 not working due to plastic bags	Chris Tregre	12/31/2017			
2							
3							
4							
5							
6							
7							
8							
9							
10							



# Pump Out of Service Repairs

- ▶ Schexnydre Pump Station: Pump #3
- ▶ Schexnydre Pump Station: Pump #2
- ▶ Destrehan #1 Pump Station: Pump #4
- ▶ Destrehan 2 Pump station: Pump #5
- ▶ Prescott Pump Station: Pump #1
- ▶ Prescott Pump Station: Pump #2
- ▶ Prescott Pump Station Pump #3
- ▶ Oak Street Station: Pump #1
- ▶ New Sarpy Station: Pump
- ▶ Walker Station: Pump #3
- ▶ Ama Pump Station: Pump #2
- ▶ Ama Pump Station: Pump #1
- ▶ Willowdale Pump Station: Pump #2
- ▶ Boutte Pump Station: Pump #1
- ▶ 80 Arpent Pump Station: Pump #3
- ▶ Boutte Station: Pump
- ▶ Old Kellogg: 12" Pump
- ▶ Cortez Pump Station: Pump #2

# Pump Out of Service Board

STATION	PUMP#	DATE OUT OF SERVICE	REASON	PUMP MITIGATION	CAPACITY	DUE BACK	RCA
DESTREHAN 1	4	2/14/2018	Pulling for Inspection	Was pulled out to see if PTO's over, Purchase Requisition pending approval, to replace the turbine pump.	100 %	9/28/2018	
Destrehan 2	5		Results of Inspection	Pump to be pulled after hurricane season (October), then work to replace has been completed.	100%		
AMA	2		Corroded and pitted wearing ring	Pulled and sent in for repairs	100% 30" Diameter in 2018		



80 ARPERT:G



# Project Board

Project / Location	Driver	Manpower	Status	Start/Finish	Priority
Culvert under RR near Engineers Canal RS	Snookie		Assign Engineer		
Ormond Oaks Ditch-to-Concrete Channel	Don		Design		
Ormond Center Slipline Culverts	Don		RFP		
Ormond Weir Culverts Limb	Don		RFP		
2018 Street Panel Project	Chris D.-EBY	8	Ongoing		
Monte Master Drainage Plan	Don		Engineering		
Mimosa Park Drainage Pipe Replacement	Don		Construction		
Subsurface Plantation - Across From school	EBY	10			
Plantation Next to Nursing Home	Mike		WATER LINE CONFLICT		
Hwy. 90 Sinkholes	Don		Design		
Wade Street Cul-de-Sac	Don		On Hold		
Clean Prescott Canal - Compliance Issue	Snookie		Access Issue		



# 2018 Projects – Completed

- ▶ Roads and Drainage - \$7,000,000
  - ▶ \$1.2M Road repairs 2017
  - ▶ \$1.13M road repairs 2018
  - ▶ \$800K Approx in concrete road repairs more than 450 panels
  - ▶ Walking paths in Des Allemands and Bayou Gauche
  - ▶ Forrest Road
  - ▶ Cortez Pumps Station Rebuild completed
  - ▶ Sunset 3 main pumps rebuilt and 2 new hydraulic pumps installed
  - ▶ Highland Estates sheetpiles
  - ▶ Hackberry canal cleaned and shored
  - ▶ Hackberry Box Culverts
  - ▶ Dunlieth phases 5, 6, and 7 (clean up)
  - ▶ East Plantation subsurface

# 2018 Projects - Completed

- ▶ Ormond Interior impacts
  - ▶ Cross Ditches
  - ▶ New style street drains
  - ▶ Elmwood upgrade
- ▶ Ormond Weirs
- ▶ Coulee cleaning and culvert alignment from Country Cottage to Thoroughbred
- ▶ Country Cottage North canal cleaning
- ▶ Country Cottage stabilization sheet piles
- ▶ Montz US 61 gate automation and telemetry
- ▶ Evangeline culvert reset and Ditches cleaned
- ▶ KCS new drainage ditch and subsurface
- ▶ Engineers Canal stabilization at Norco Elementary
- ▶ Upper Guide Levee Canal cleaning



# 2018 Projects - Completed



- ▶ Wetland Watchers Park pier sheetpiles on westside
- ▶ Wetland Watchers Park pier concrete stabilization eastside
- ▶ Wetland Watchers Park jetty
- ▶ Wade Street Drainage Improvements
- ▶ Hahnville Canal
- ▶ Vial Canal
- ▶ Cortez Canal
- ▶ 80 Arpent I310 to pump station
- ▶ I310 Canal cleaning
- ▶ Dufrense Ditch cleaning
- ▶ 40 Arpent
- ▶ Lorio/Melancon/3160 ditches
- ▶ Courthouse Ln ditch to Vial



# 2018 Projects - Completed

- ▶ South Fashion Ditch
- ▶ Hymel Canal
- ▶ Sweep Ditches from HWY 90 to Sunset
- ▶ Gertrude Subsurface
- ▶ ATMOS Energy to bring a natural gas line to the Sunset Pump Station, to serve as a back-up fuel
- ▶ Upgraded the natural gas supply from Williams at Sunset
- ▶ Ama – Alice street ditch
- ▶ Beaupre Canal
- ▶ Willowdale intake canal
- ▶ Sugarhouse canal
- ▶ Hall street canal and repairs to culverts at St Charles Hosp
- ▶ St Anthony Canal
- ▶ Vial Canal

# 2018 Projects - Completed



- East Levert ditch cleaning
- Beau Place ditches
- Primrose
- South Kinler Ditch
- Gassen/Ashton Ditch
- Lone Star Union Pacific ditch
- I310 Ashton Ditch
- Killona Ditch
- Post St Ditch
- Crespo ditch cleaning
- Oakland Pump Station repair
- Prescott at Airline



# 2018 Projects - Completed

- ▶ St Charles Canal
- ▶ Norco US 61 at Dollar General
- ▶ Cypress Lakes Drainage and Retention (starting)
- ▶ Schexnaydre Pump station Upgrades
- ▶ Destrehan 1 Pump Station Upgrade (designed)
- ▶ Engineers Canal Pump Station Upgrade (designed, Funded, W/Grant)
- ▶ US 61 Drainage Conveyance Increases.. Designed and ready for State Bid. Utility servitude issues
- ▶ West Plantation Road Subsurface (waiting resources)
- ▶ Dunleith ph 8 (ready to go to bid)
- ▶ Montz Multi use Path (starting)
- ▶ Prescott Canal Cleaning (Pending agreement)
- ▶ Montz Drainage study (Design)



# 2018 Projects

- ▶ Oak St Pump Station Upgrade ( bid accepted waiting for Council approval)
- ▶ Fairfield Pump Station Upgrade (design)
- ▶ Oakland Pump Station Upgrade (design)
- ▶ Ormond Oaks Ditch (design)
- ▶ Ormond Center Culvert lining (exploration)
- ▶ Ormond Blvd Birdbaths (exploration)
- ▶ Engineers Canal stabilization (working)
- ▶ 300 ft to be stabilized at Norco Elementary
- ▶ Install subsurface from Schexnayder to River Village

# 2018 Projects

- ▶ Ama Pump Station Upgrade (designed)
- ▶ BNSF Railroad Ditch (permitted, starting)
- ▶ BNSF railroad ditch realignment (waiting permitting)
- ▶ Willowdale Drainage Improvements (starting)
- ▶ Mimosa Pump Station culvert replacement (on hold)
- ▶ Des Allemands Bulkhead (surveying and pre-design)
- ▶ Magnolia Pump Station
- ▶ Ellington Pump Station
- ▶ Hurricane Levee Projects
- ▶ Sunset Levee property right of way acquisition



# 2018 Projects

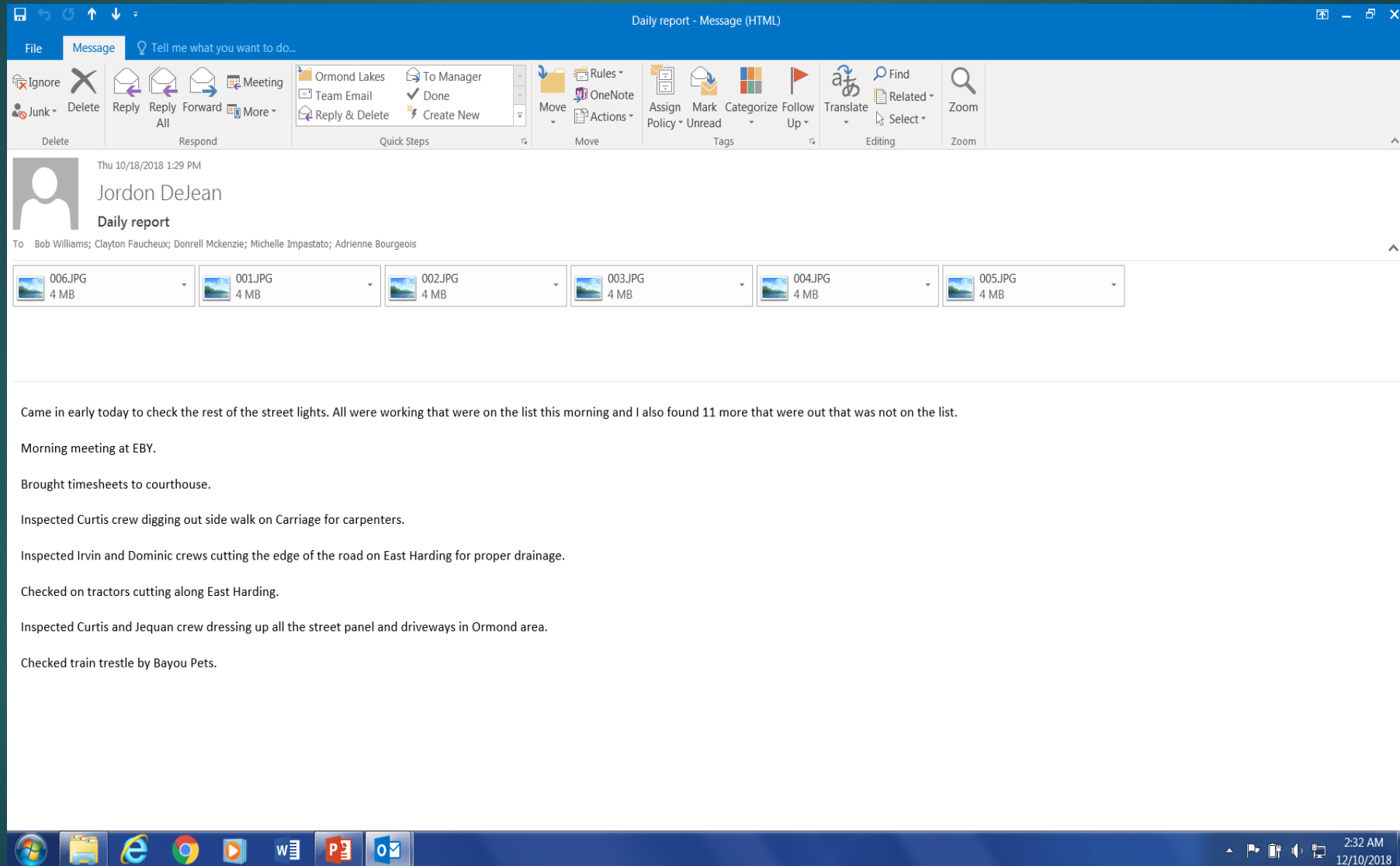
- ▶ Wastewater - \$8,000,000
  - ▶ \$1.1M Killona Force Main
  - ▶ \$1.3M St Rose Upgrade
  - ▶ \$500K Westbank Sewer Plant improvement
  - ▶ Marcia Dr - Barton Lift Station Upgrade
  - ▶ Montz and Norco Lift Stations (90% designed)
  - ▶ Luling Oxidation Pond (70% designed)
  - ▶ Lone Star CBDG

# Utility Permitting

St. Charles Parish - Utility Permits							
Permit #	Primary Company	Sub-Contractor	Date Issued	Date Closed	Location and Description of Work	Primary Contact Info	Sub Contact Info
2017-14	Atmos	Benton	11/7/2017		Preston Hollow, St. Rose SIIP Program - boring new main lines and service lines	Blake Lang 504-849-4417 Karl Weber 504-849-4335	Armondo - 210-279-0309, Ivan - 956-862-8689 Luis - 956-566-8385
2018-01	Cox	Torry	1/25/2018		Beltway, St. Rose 36" depth - installation of 2" conduit - Total 335' bore		Mike or Stephen Torry 504-822-8487
2018-02	Cox	Torry	1/25/2018		E. Campus, Destrehan 36" depth - installation of 2" conduit - Total 475' bore		Mike or Stephen Torry 504-822-8487
2018-03	Cox	Torry	1/25/2018		Alpha Drive, Destrehan 36" depth - installation of 2" conduit - Total 440' bore		Mike or Stephen Torry 504-822-8487
2018-04	Atmos	Benton	2/8/2018		E. Campus, Destrehan SIIP Program - boring new main lines and service lines	Blake Lang 504-849-4417 Karl Weber 504-849-4335	Armondo - 210-279-0309, Ivan - 956-862-8689 Luis - 956-566-8385
2018-05	Atmos	Benton	2/8/2018		Touchard, Easy, Dufrene, Dans - Des Allemands SIIP Program - boring new main lines and service lines	Blake Lang 504-849-4417 Karl Weber 504-849-4335	Armondo - 210-279-0309, Ivan - 956-862-8689 Luis - 956-566-8385
2018-06	Atmos	Benton	2/8/2018		Schaubhut, Boras, Candies, Twin Bridge - Des Allemands SIIP Program - boring new main lines and service lines	Blake Lang 504-849-4417 Karl Weber 504-849-4335	Armondo - 210-279-0309, Ivan - 956-862-8689 Luis - 956-566-8385
2018-07	Atmos	Benton	2/8/2018		Down the Bayou - Des Allemands SIIP Program - boring new main lines and service lines	Blake Lang 504-849-4417 Karl Weber 504-849-4335	Armondo - 210-279-0309, Ivan - 956-862-8689 Luis - 956-566-8385
2018-08	Atmos	Benton	3/12/2018		Bar None, St Rose SIIP Program - boring new main lines and service lines	Blake Lang 504-849-4417 Karl Weber 504-849-4335	Armondo - 210-279-0309, Ivan - 956-862-8689 Luis - 956-566-8385



# Quality Assurance Inspections



# District 1

- ▶ Kinler St
- ▶ Ponderosa
- ▶ Gassen st
- ▶ Paul Fredrick
- ▶ Blueberry
- ▶ Post St
- ▶ School House
- ▶ Adams St
- ▶ Aquarius
- ▶ River Park



# District 2

- ▶ Kennedy
- ▶ Anna
- ▶ Bernard
- ▶ Ellen
- ▶ Talbot
- ▶ Ellington
- ▶ Birch

- ▶ Asphodel
- ▶ Davis Dr
- ▶ Evelyn
- ▶ Purple Martin
- ▶ Marcia

# District 3

- ▶ Madewood Ditch
- ▶ South Destrehan



# District 4

- ▶ Matherne
- ▶ Mathew
- ▶ Mark
- ▶ Dixie
- ▶ First St
- ▶ Edna

- ▶ Mitchell Ln
- ▶ Maloney Rd
- ▶ Michael Dr.
- ▶ Bayou Estates
- ▶ Cado
- ▶ JB Green

# District 5

- ▶ Oak St
- ▶ St Rose Ave
- ▶ East Johnson
- ▶ Eisenhower
- ▶ Faith Place
- ▶ Magnolia Ct
- ▶ Louisiana St



# District 6

- ▶ Payne St
- ▶ Spruce St
- ▶ Good Hope St
- ▶ St Charles
- ▶ Pine St
- ▶ Washington
- ▶ Terrace
- ▶ Vans Ln
- ▶ Carolyn Dr
- ▶ Evangeline
- ▶ Thoroughbred

# District 7

- ▶ Coronado
- ▶ Ash
- ▶ Mimosa
- ▶ St Anthony
- ▶ Wade

- ▶ Wanda
- ▶ St Nicholas
- ▶ North Oak Ct
- ▶ Terri Dr
- ▶ Monsanto



# Hackberry Installation of 72" Culverts





# US 61 at Prescott Gate





# Pump Maintenance





# Canal Cleaning

