EPA United States Environmental Protection Agency

Region 6 Compliance Assurance and Enforcement Division

INSPECTION REPORT

Inspection Date(s):	November 15–18, 2021		
Media:	Water		
Regulatory Program(s)	CWA		
Company Name:	**Total Environmental Solutions, Inc. (TESI)**		
Facility Name:	Multiple – see attached spreadsheet – Attachment 1		
Facility Physical Location:	Multiple – see attached spreadsheet – Attachment 1		
(city, state, zip code)			
Mailing address:	PO Box 14059		
(city, state, zip code)	Baton Rouge, LA 70898		
County/Parish:			
Facility Contact:	Gayle Davidson	Compliance Manager	
	gdavidson@tesi-usa.com		
FRS Number:	110009924403		
Identification/Permit Number:	Multiple – see attached spreadsheet – Attachment 1		
Media Number:			
NAICS:			
SIC:	4952		
Personnel participating in inspection:			
Kenneth AuBuchon	EPA-R6/EN-WM	Environmental Engineer	281-983-2151
Lawrence Messmer	TESI	Operations Manager	337-316-2925
Wendy Cahanin	TESI	Project Assist	337-319-1530
Earl Hayes (“Fig”)	TESI	Lead Operator	337-319-1530
Kathryn Sparks	TESI	Operator	985-466-0009
EPA Lead Inspector Signature/Date	KENNETH AUBUCHON Digitally signed by KENNETH AUBUCHON DN: c=US, o=U.S. Government, ou=Environmental Protection Agency, cn=KENNETH AUBUCHON, 0.9.2342.19200300.100.1.1=68001003655902 Date: 2022.01.12 22:27:24 -06'00'		
	Kenneth AuBuchon		Date
Supervisor Signature/Date	ROBERTO BERNIER Digitally signed by ROBERTO BERNIER DN: c=US, o=U.S. Government, ou=Environmental Protection Agency, cn=ROBERTO BERNIER, 0.9.2342.19200300.100.1.1=68001003655586 Date: 2022.01.13 07:38:58 -06'00'		
	Roberto Bernier		Date

Section I - INTRODUCTION

PURPOSE OF THE INSPECTION

EPA Region 6 inspector, Kenneth AuBuchon, arrived at a designated meeting location, on November 15, 2021, with several TESI staff for a meeting regarding the 2017 Consent Decree Modification, Civil Action No. 6:98-0687 (CD) information as well as a briefing before heading to the first of several Sewer Treatment Plants (STP) operated by TESI.

I met with Mr. Lawrence Messmer and Mrs. Kathryn Sparks to discuss the purpose of the inspections regarding the ongoing tracking of the CD requirements as well as to review several sites that TESI is requesting to remove from the CD. The inspections were conducted under the authority of the National Pollutant Discharge Elimination System (NPDES) permit program in accordance with the Federal CWA and to verify compliance with the provisions of the 2017 Consent Decree Modification.

This report is based on information supplied by TESI, observations made by me, and records and reports maintained by the permittee, the State of Louisiana, and/or the U.S. EPA.

FACILITY DESCRIPTION

Twenty-two (22), of thirty (30), facilities that were requested to be removed from the CD were inspected. All 22 STPs operated by TESI and listed in the CD were inspected in regard to the schedule of compliance as well as requests for extensions. All of the STPs are covered under a Louisiana Pollutant Discharge Elimination System (LPDES) permit, with permit numbers listed in the location descriptions spreadsheet. See Appendix 1.

Section II - OBSERVATIONS

Areas for observation included various Schedules of Compliance referenced in the CD and associated plans submitted as part of the CD requirements. The CD requires a final “Specific Process Control Plan” for all mechanical facilities, which includes information regarding sludge managment. However, prior to the development of a “Specific Process Control Plan”, sludge is to be managed in accordance with the “Holistic Process Control Plan for Mechanical STPs” that is spelled out in the CD.

*For Mechanical Facilities **without** a Specific Process Control Plan:*

Sludge wasting requirements in the CD are based on the blanket level as well as solids settleability. The CD includes a response to malfunctions regarding excessive solids buildup in excess of target levels suspected to be caused by a power or mechanical malfunction. The Long-Term Compliance Plan (LTCP) of the CD includes a “Holistic Process Control Plan for Mechanical STPs”. The following are the sludge wasting requirements of that section:

> *3. **Holistic Process Control Plan for Mechanical STPs.** TESI shall implement a Holistic Process Control Plan for Mechanical STPs as an interim measure until the STP-specific Process Control Plans for Mechanical STPs, required in Paragraph 4, are completed and implemented for each Mechanical STP. TESI has submitted and EPA and LDEQ have reviewed the Holistic Process Control Plan for Mechanical STPs attached hereto as Attachment 2, and determined that the attachment fulfills the requirements for a Holistic Process Control Plan for Mechanical STPs set forth in this Paragraph. TESI shall implement the attached Holistic Process Control Plan for Mechanical STPs in its entirety beginning on the Effective Date of the Consent Decree Modification. Any future modifications of the Holistic Process Control Plan for*

Mechanical STPs shall be consistent with all requirement of this Paragraph. The Holistic Process Control Plan for Mechanical STPs shall include:

a. STP Solid Wasting Procedures for regular solids evaluation and wasting to ensure solids wasting will occur within one week of each time solids depth is found to exceed 40% of the total height of the clarifier sidewall unless a 50% dilution settleability test does not show greater settleability than the standard settleability measurement taken. The solids depth measurement, the standard settleability test, and the 50% dilution settleability test must be performed during the same visit to the STP.

b. Solids wasting shall be required regardless of the results of the 50% dilution settleability test if solids depth exceeds 40% of the total height of the clarifier sidewall and:

i. TESI is unable to perform the standard settleability test and the 50% dilution settleability test during the same visit to the STP as the visit during which the solids depth is measured, or

ii. The depth of solids in the clarifier exceeds 60% of the total height of the clarifier sidewall.

c. In addition to the provisions in Subparagraphs a and b above, the STP Solids Wasting Procedures shall ensure:

i. Each time solids wasting at an STP is required, solids shall be removed from the clarifier such that the total depth of the solids in the clarifier is no more than 1/3 of the total height of the clarifier sidewall.

ii. If TESI documents that it has contacted at least three sewage sludge hauling contractors within two business days after a determination under Paragraphs a and b above that wasting of solids is required at an STP and none of the sewage sludge hauling contractors were able to remove the solids from the STP by the applicable deadline, then TESI may invoke force majeure under Section XIV (Force Majeure) of the Consent Decree.

iii. When responding to excessive solids buildup in excess of target levels suspected to be caused by a power or mechanical malfunction, TESI personnel will follow the Mechanical WWTP Sludge Removal Protocol Due to Power and Mechanical Deficiencies Affecting Clarifier ("the Malfunction Protocol"), attached hereto as Attachment 3. If TESI seeks to apply the Malfunction Protocol, it must document that decision so that compliance with the requirements of this Long Term Compliance Plan can be evaluated. Specifically, each time the measured sludge depth in an STP exceeds 40% of the total height of the clarifier sidewall and TESI elects to follow the provisions of the Malfunction Protocol, it must document the event by providing complete information including:

1. The date, location, and result of the initial sludge depth measurement that exceeded 40% of the total height of the clarifier sidewall;

2. Whether TESI suspected that the buildup of sludge was caused by a power or mechanical malfunction;

3. Whether TESI elected to follow the Malfunction Protocol;

4. Whether TESI identified a malfunction within 24 hours and, if so, the type (power or mechanical) of malfunction identified;

5. The date, location, and result of the re-measurement of sludge depth pursuant to Malfunction Protocol ¶ 2; and

6. Whether solids were wasted from the STP after re-measurement and, if so, the date this occurred and the resulting sludge depth.

iv. Solids depths will be measured with a Sludge Judge sampling device and recorded at all mechanical STPs during each regularly scheduled visit by TESI personnel.

*For Mechanical Facilities **with** a Specific Process Control Plan:*

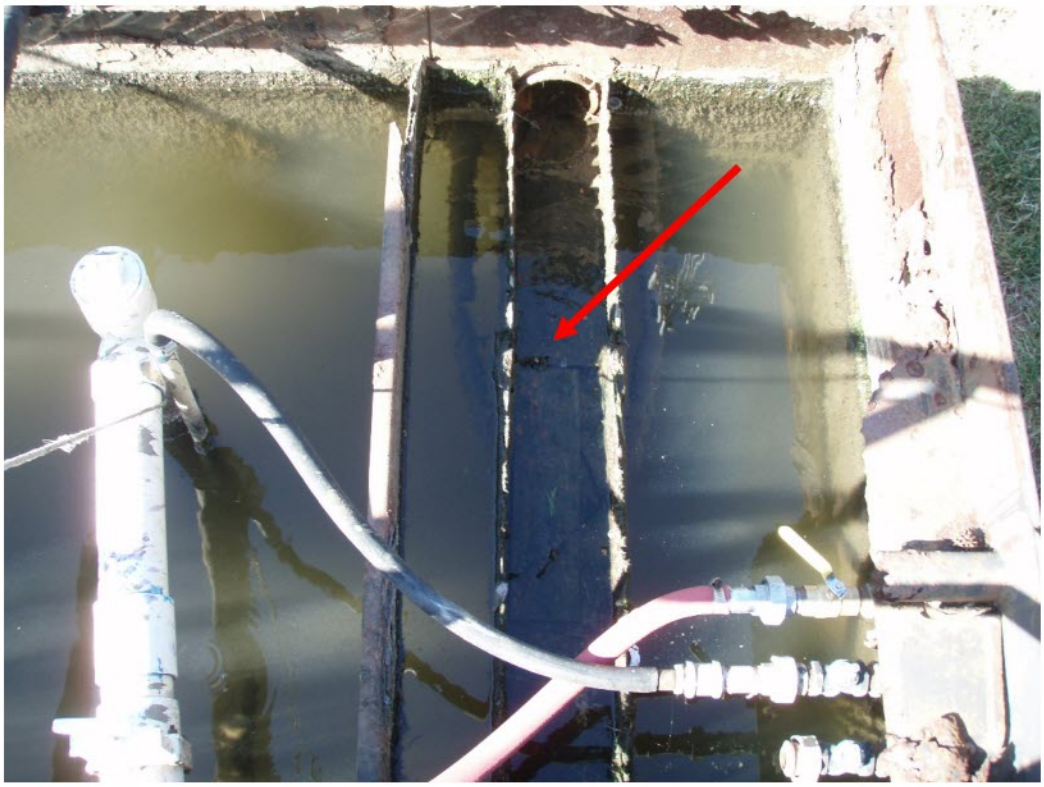
Sludge blanket levels and solids settleability is incorporated into the Specific Process Control Plans, as well as Mixed Liquor Suspended Solids (MLSS), for the management and wasting of sludge.

The following are site specific requirements, requirements reviewed during inspections, and areas of concern noted for each facility inspected:

Crozier Heights / LAG560179 / 11/15/2021

Areas of Concern:

1. Weir was being bypassed as flow was from under the weir structure and in need of repair (see picture below)



2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, 30-minute settleability) see table below for Crozier Heights STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Crozier Heights STP

Parameter	*Inspection value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)		*2*	*4*	*mg/L*
MLSS	*6,060*	*2,000*	*3,000*	*mg/L*
Sludge Volume Index	*33*	*125*	*175*	*mL/g*
30-Minute Settleability	*20%*	*25%*	*50%*	
Clarifier Sludge Blanket Depth	*2.5*	*1*	*3*	*ft*

Consent Decree Required Jobs to Complete for the Crozier Heights STP

Job to complete	Date completed	Job completion Information
Clarifier Level overflow weir.	11/15/2021	Scheduled on 26-7-12 / 9-20-12. It is rescheduled for 71-1-21 / 10-1-21. Unknown date confirmed on Audit date/ completed
Aeration Repair diffusers and leak in air header.	6/12/2017	Unknown date confirmed on Audit date/ completed
Chlorine Chamber Provide cover for chlorinator tubes.	6/12/2017	Unknown date confirmed on Audit date/ completed
Discharge Install an effluent flow measurement device in a favorable position.	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21. Unknown date confirmed on Audit date/ completed
Clarifier Fix leak in RAS line.	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21 Unknown date confirmed on Audit date/ completed
Clarifier Restore surface skimmer to functionality and install additional skimmer.	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21 Unknown date confirmed on Audit date/ completed
Lift Station Remove old steel control panel and leave existing fiberglass control panel in place	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21 Unknown date confirmed on Audit date/ completed
Lift Station Repair non-operating Surface Pumps	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21 Unknown date confirmed on Audit date/ completed
Structural Repairs Repair rusting walls: head of aeration at bar screen, aeration near transfer, blower piping inlet to aeration basin, rear of CCC	2/4/2021	Delayed due to weather and Contractor Scheduled for 5-1-21

Dugas (Community Sewer) / LAG540239 / 11/15/2021

Areas of Concern:

1. Solids in the Chlorine Contact Chamber (see pictures below).

2. Sludge observed in the receiving ditch (see picture below).

3. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Dugas STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Dugas STP

Parameter	*Inspection value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)		*2*	*4*	*mg/L*
MLSS	*4,820*	*5,800*	*6,800*	*mg/L*
Sludge Volume Index	*124.5*	*75*	*100*	*mL/g*
30-Minute Settleability	*60%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*4*	*1*	*4*	*Ft*

Consent Decree Required Jobs to Complete for the Dugas STP

Job to complete	Date completed	Job completion Information
Clarifier Extend the discharge end of the RAS line	5/25/2017	Unknown date confirmed on Audit date/ completed
Clarifier Install Surface Skimmer in clarifier	5/20/2019	Completed as per request
Discharge Install v-notch sample box	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21 Unknown date confirmed on Audit date/ completed
Clarifier Level overflow weir.	5/25/2017	Unknown date confirmed on Audit date/ completed
Chlorine Chamber Install baffles.	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21 Unknown date confirmed on Audit date/ completed

Eureka Heights 1 & 2 / LAG570018 / 11/15/2021

Areas of Concern:

1. Sludge observed in the receiving ditch from Eureka #1 discharge (see picture below).

2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, 30-minute settleability) see table below for Eureka #1 STP.

3. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O., MLSS, 30-minute settleability, clarifier sludge blanket depth) see table below for Eureka #2 STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Eureka #1 STP

Parameter	*Inspection value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*3.33*	*2*	*4*	*mg/L*
MLSS	*1,890*	*3,500*	*4,500*	*mg/L*
Sludge Volume Index	*264*	*100*	*150*	*mL/g*
30-Minute Settleability	*51%*	*35%*	*50%*	
Clarifier Sludge Blanket Depth	*2.5*	*1*	*4*	*Ft*

Consent Decree Required Jobs to Complete for the Eureka #1 STP

Job to complete	Date completed	Job completion Information
Chlorine Contact Chamber Provide cover for chlorinator tubes	4/18/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Provide support for Jet box	4/18/2017	Unknown date confirmed on Audit date/ completed
Clarifier Add additional skimmer	4/18/2017	Unknown date confirmed on Audit date/ completed
Clarifier Level overflow weir.	4/18/2017	Unknown date confirmed on Audit date/ completed
Clarifier Restore surface skimmer to functionality	4/18/2017	Unknown date confirmed on Audit date/ completed
Structural Reinforce corroded parts of STP	10/20/2020	Complete, Was original scheduled on9-20-12. It is rescheduled for 7-10-18 / 5-1-21
Discharge Install v-notch sample box or other flow measurement system	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21. Unknown date confirmed on Audit date/ completed.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Eureka #2 STP

Parameter	*Inspection value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*6.27*	*2*	*4*	*mg/L*
MLSS	*2,400*	*4,600*	*5,600*	*mg/L*
Sludge Volume Index	*124.5*	*100*	*150*	*mL/g*
30-Minute Settleability	*60%*	*40%*	*50%*	
Clarifier Sludge Blanket Depth	*2.5 / 4*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Eureka #2 STP

Job to complete	Date completed	Job completion Information
Structural Replace deteriorating barscreen	10/21/2020	Complete as Per Request, Delayed due to weather and Contractor Scheduled for 5-1-21
Chlorine Chamber Provide cover for chlorinator tubes	4/18/2017	Unknown date confirmed on Audit date/ completed
Structural Reinforce corroded parts of STP	10/20/2020	Was original scheduled on9-20-12. It is rescheduled for 7-10-18 / 5-1-20
Clarifier Level overflow weir.	4/18/2017	Unknown date confirmed on Audit date/ completed
Clarifier Restore surface skimmer to functionality	4/18/2017	Unknown date confirmed on Audit date/ completed
Discharge Install v-notch sample box or other flow measurement system	11/15/21	Delayed due to weather and Contractor Scheduled for 5-1-21. Unknown date confirmed on Audit date/ completed. See picture below

Suburban Estates / LAG560240 / 11/15/2021

Areas of Concern:

1. Sludge observed in the receiving ditch (see picture below).

2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O. and SVI) see table below for Suburban Estates STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Suburban Estates STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*1.34*	*2*	*4*	*mg/L*
MLSS	*2,530*	*2,500*	*3,500*	*mg/L*
Sludge Volume Index	*126.5*	*75*	*125*	*mL/g*
30-Minute Settleability	*32%*	*20%*	*45%*	
Clarifier Sludge Blanket Depth	*2.5*	*1*	*3.5*	*ft*

Consent Decree Required Jobs to Complete for the Suburban Estates STP

Job to complete	Date completed	Job completion Information
Chlorine Chamber Level chlorinator.	4/18/2017	Unknown date confirmed on Audit date/ completed
Aeration Clean or replace diffusers and evaluate increasing aeration capacity if necessary to maintain at least 1.0 mg/L DO concentration.	4/18/2017	Unknown date confirmed on Audit date/ completed
Structural Repair deteriorating walls top supports	12/20/2020	Delayed due to weather round change scheduled for 5-1-21
Discharge Install v-notch sample box	11/15/21	Delayed due to weather round change scheduled for 5-1-21. Unknown date confirmed on Audit date/ completed
Perform smoke testing and associated repairs	Requested	Delayed due to weather round change scheduled for 5-1-21 Unknown date requested copy of results on Audit date.

Willowdale / LAG570015 / 11/15/2021

Areas of Concern:

1. No solids in the aeration basin, Sludge Volume Index - 0 - (see picture below of 30-minute set test and aeration basin).



2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O, SVI, 30-minute settleability, clarifier sludge banket depth) see table below for Willowdale STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Willowdale STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*6.30*	*2*	*4*	*mg/L*
MLSS	*2,210*	*2,000*	*5,000*	*mg/L*
Sludge Volume Index	*0*	*100*	*150*	*mL/g*
30-Minute Settleability	*0%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*2 / <1*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Willowdale STP (non were listed)

Beau Parterre / LA0078450 / 11/16/2021

Areas of Concern:

1. Sludge observed in the receiving ditch (see the following pictures below).

2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O., SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Beau Parterre STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Beau Parterre STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*1.48*	*2*	*4*	*mg/L*
MLSS	*2,470*	*1,500*	*2,500*	*mg/L*
Sludge Volume Index	*194*	*75*	*100*	*mL/g*
30-Minute Settleability	*48%*	*20%*	*30%*	
Clarifier Sludge Blanket Depth	*<1*	*1*	*4*	*Ft*

Consent Decree Required Jobs to Complete for the Beau Parterre STP

Job to complete	Date completed	Job completion Information
Chlorine Contact Chamber Install caps on chlorine tubes.	2/16/2018	Completed as per request
Safety/STP Install cover over blower silencer and filter.	10/31/2018	silencer is safe and secure cover is not needed
Discharge Install lid on v-notch sample box.	10/2/2018	completed as per request

Relocate aeration diffusers in first cell in the middle of the aeration basin.	7/3/2017	Unknown date confirmed on Audit date/ completed
Verify inlet of the CCC discharge is position within six inches or less of the tank, consider relocation post aeration process equipment, and repair / modify discharge structure to avoid short circuiting during high flows.	7/3/2017	Not necessary
Aeration Inspect, clean, repair, and/or replace diffusers.	7/3/2017	Unknown date confirmed on Audit date/ completed
Aeration Modify blower system to allow for greater volumes of air.	7/3/2017	Unknown date confirmed on Audit date/ completed
Discharge Modify or repair discharge piping from CCC. Install Sample V-notch	7/3/2017	Unknown date confirmed on Audit date/ completed

Avies Knoll 1 & 2 / LA0074951 / 11/16/2021

Areas of Concern:

1. The digester that is installed for both plants is not being utilized or properly operated as required. The digester was reported to be repaired and utilize on 9/12/2018 per the DOJ consent decree required jobs for Avies Knoll 1 & 2. The digester's utilization with proper operations is part of the plants design.

2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (SVI, 30-minute settleability) see table below for Avies Knoll #1.

3. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (30-minute settleability, clarifier sludge blanket depth) see table below for Avies Knoll #2.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Avies Knoll #1 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.13*	*2*	*4*	*mg/L*
MLSS	*3,500*	*3,000*	*4,000*	*mg/L*
Sludge Volume Index	*99*	*125*	*175*	*mL/g*
30-Minute Settleability	*35%*	*35%*	*50%*	
Clarifier Sludge Blanket Depth	*2*	*1*	*4*	*ft*

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Avies Knoll #2 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.38*	*2*	*4*	*mg/L*
MLSS	*3920*	*3,500*	*4,000*	*mg/L*
Sludge Volume Index	*153*	*110*	*160*	*mL/g*
30-Minute Settleability	*60%*	*35%*	*50%*	
Clarifier Sludge Blanket Depth	*4 / 3.5*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Avies Knoll #1 & #2 STP

Job to complete	Date completed	Job completion Information
Digester (STP#1&2) Make necessary repairs to utilize for sludge	9/12/2018	Complete as per request
STP#2 CCC - replace chlorinator support	12/10/2018	Complete as per request
STP#3 Repair hole in CCC/clarifier walls	9/13/2018	Complete as per request
STP#4 Aeration - remove old bar screen	9/14/2018	Complete as per request
Aeration - remove old bar screen	9/14/2018	Complete as per request
STP #1 & #2 Splitter box - ensure functionality and flow control.	6/30/2017	Unknown date confirmed on Audit date/ completed
Aeration Clean or replaced diffusers and evaluate increasing aeration capacity if necessary to maintain at least 1.0 mg/L DO concentration.	6/30/2017	Unknown date confirmed on Audit date/ completed
STP#2 Clarifier - Level overflow weir.	6/30/2017	Unknown date confirmed on Audit date/ completed

Shadowwood / LA0075281 / 11/16/2021

Areas of Concern:

1. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (SVI, 30-minute settleability) see table below for Shadowwood STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Shadowwood STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.76*	*2*	*4*	*mg/L*
MLSS	*2,630*	*2,500*	*3,500*	*mg/L*
Sludge Volume Index	*57*	*125*	*175*	*mL/g*
30-Minute Settleability	*15%*	*30%*	*50%*	
Clarifier Sludge Blanket Depth	*3*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Shadowwood STP

Job to complete	Date completed	Job completion Information
Chlorine Contact Chamber Repair or replace baffles.	7/3/2017	Unknown date confirmed on Audit date/ completed
Discharge Structure Modify discharge structure to make it more accessible or install other flow measurement device.	7/3/2017	Unknown date confirmed on Audit date/ completed
STP Cover or protect STP from vegetation & debris.	7/3/2017	Unknown date confirmed on Audit date/ completed
Lift Station Repair or replace Surface Lift Pumps	3/10/2020	Confirmed complete on 3-10-20
STP Repair deteriorating aeration walls	11/16/2021	Delayed due to weather and Contractor Scheduled for 5-1-21. Unknown date confirmed on Audit date/ completed
Discharge Structure Install cover over v-notch sample box	9/9/2019	Completed as Per Request
STP Repair/replace blower #1 (was not online)	7/3/2017	Unknown date confirmed on Audit date/ completed

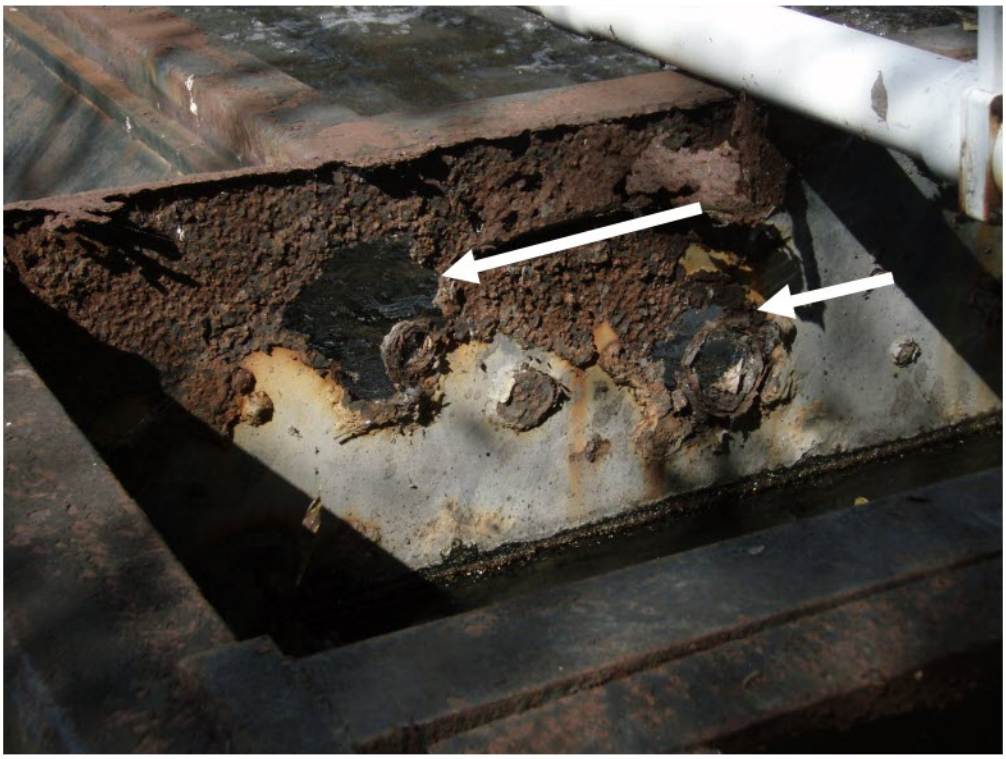
Park 90 / LAG540114 / 11/16/2021

Areas of Concern:

1. No solids in the aeration basin, Sludge Volume Index - 0 - (see picture below of 30-minute set test and aeration basin).

2. Solids in the Chlorine Contact Chamber (see picture below).

3. Rusted and deteriorated structure needs to be repaired (see picture below).



4. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O., MLSS, SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Park 90 STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Park 90 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*5.22*	*2*	*4*	*mg/L*
MLSS	*237*	*4,000*	*5,000*	*mg/L*
Sludge Volume Index	*0*	*75*	*125*	*mL/g*
30-Minute Settleability	*0%*	*35%*	*50%*	
Clarifier Sludge Blanket Depth	*1 / .67*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Park 90 STP

Job to complete	Date completed	Job completion Information
Equipment Install bracket on blower/motor cover	7/10/2019	Completed as per request
Aeration Basin Replace Bar Screen	6/21/2001	Completed as per request
Aeration Basin Remove, inspect, clean/repair, as necessary, the diffusers.	6/6/2017	Unknown date confirmed on Audit date/ completed
Clarifier Repair RAS piping.	6/6/2017	Unknown date confirmed on Audit date/ completed
Perform smoke testing and corresponding repairs if flows shows >400% between peak and average flows	Requested	Requested at the time of the inspection.

Shangri-La / LAG560018 / 11/16/2021

Areas of Concern:

1. Abandoned treatment tank needs to be properly remediated and closed (see picture below).

2. Solids in the Chlorine Contact Chamber (see picture below).

3. Observed unknown 2-inch pipe at the Chlorine Contact Chamber (see picture below).

4. Observed Bloodworms in the clarifier at the time of the inspection (see picture below).

5. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (clarifier sludge blanket depth) see table below for Shangri-La.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Shangri-La STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*3.30*	*2*	*4*	*mg/L*
MLSS	*3,630*	*2,000*	*5,000*	*mg/L*
Sludge Volume Index	*110*	*100*	*150*	*mL/g*
30-Minute Settleability	*40%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*3*	*1*	*3*	*ft*

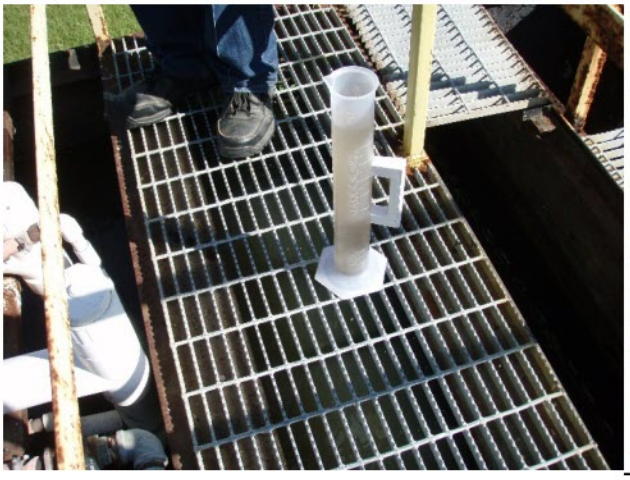
Consent Decree Required Jobs to Complete for the Shangri-La STP

Job to complete	Date completed	Job completion Information
Aeration - Completely close abandoned aeration cell	9/2/2015	Unknown date confirmed on Audit date/ completed
Structural Repairs Seal all openings around aeration cells	5/17/2017	Completed as per request
Safety Seal rusting holes on blower/motor door and repair blower covers	5/17/2017	Completed as per request
Safety/Structural Repairs Make necessary repairs to rusting wall in cell #1 and ccc.	1/9/2020	Confirmed complete 1-9-20
Aeration - Reconfigure arrangement of diffusers.	7/7/2011	Unknown date confirmed on Audit date/ completed
Clarifier - Install influent well(baffle)	12/3/2010	Unknown date confirmed on Audit date/ completed
Clarifier - Replace and level the overflow weir trough.	12/3/2010	Unknown date confirmed on Audit date/ completed
Clarifier - Restore existing skimmer functionality.	12/3/2010	Unknown date confirmed on Audit date/ completed
STP - Install new bar screen.	2/6/2013	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Provide cover for chlorinator tubes.	6/6/2017	Unknown date confirmed on Audit date/ completed
Aeration Assess the dissolved oxygen levels.	6/6/2017	Unknown date confirmed on Audit date/ completed
STP Reinforce or replace corroded parts of plant to prevent leakage.	11/30/2018	Completed as per request
Safety/Structural Repairs Place rip rap or hard bags on concrete below outfall to prevent erosion from discharge.	1/29/2021	Complete, Scheduled before 5-1-21
Chlorine Contact Chamber - Replace transfer line to CCC.	3/27/2018	Completed as per request
Chlorine Contact Chamber - Install a cover over the CCC to vegetative debris from entering.	11/5/2018	Complete as per request
Record lift station influent necessary to properly design the flow equalization system	Requested	on going. Requested information at time of the Inspection
Preform smoke testing to determine inflow and infiltration possiblity	Requested	Delayed due to weather round change scheduled for 5-1-21. Requested smoke test results at time of the inspection.

Robichaux Ridge / LAG560204 / 11/16/2021

Areas of Concern:

1. No solids in the aeration basin, Sludge Volume Index - 0 - (see picture below of 30-minute set test and aeration basin).



2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Robichaux Ridge STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Robichaux Ridge STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*3.82*	*2*	*4*	*mg/L*
MLSS	*2,010*	*3,500*	*4,500*	*mg/L*
Sludge Volume Index	*0*	*75*	*125*	*mL/g*
30-Minute Settleability	*0%*	*25%*	*50%*	
Clarifier Sludge Blanket Depth	*1 / 1*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Robichaux Ridge STP

Job to complete	Date completed	Job completion Information
Clarifier Level of overflow weir.	6/5/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Provide cover for chlorinator tubes.	6/5/2017	Unknown date confirmed on Audit date/ completed
STP Install plate at bottom point of V-notch.	6/5/2017	Unknown date confirmed on Audit date/ completed

Hummingbird Plaza / Wolf Creek / LAG542026 / 11/17/2021

Areas of Concern:

1. The digester is not operational or being utilized. The digester's utilization with proper operations is part of the plants design.

2. Sludge observed in the receiving ditch (see pictures below).

3. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Hummingbird Plaza/Wolf Creek STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Hummingbird Plaza/Wolf Creek STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.87*	*2*	*4*	*mg/L*
MLSS	*1,370*	*1,000*	*1,500*	*mg/L*
Sludge Volume Index	*672*	*105*	*155*	*mL/g*
30-Minute Settleability	*92%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*6*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Hummingbird Plaza/Wolf Creek STP (non were listed)

Jackson Square / Pontalba / LA0078263 / 11/17/2021

Areas of Concern:

1. The first aeration cell was not being utilized or properly operated as required. The first aeration cell was reported to be online and providing additional treatment capacity on 10/01/2016. The aeration cell's utilization with proper operations is part of the plants design.

2. Solids in the Chlorine Contact Chamber (see pictures below).

3. Rusted and deteriorated structure needs to be repaired (see pictures below).

4. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O. and clarifier sludge blanket depth) see table below for Jackson Square / Pontalba STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Jackson Square/Pontalba STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*1.90*	*2*	*4*	*mg/L*
MLSS	*2,230*	*2,000*	*5,000*	*mg/L*
Sludge Volume Index	*108*	*100*	*150*	*mL/g*
30-Minute Settleability	*24%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*5.5*	*1*	*5*	*Ft*

Consent Decree Required Jobs to Complete for the Jackson Square/Pontalba STP

Job to complete	Date completed	Job completion Information
Flow Meter Recommended that flow measurement device be relocated to favorable position as defined by State-adopted design standards	7/25/2017	Unknown date confirmed on Audit date/ completed
STP Place first aeration cell online for additional treatment capacity.	10/1/2016	Complete

The Glade / LA0077917 / 11/17/2021

Areas of Concern:

1. Weirs were being bypassed due to the uneven weir structure (see pictures below).

2. Sludge observed in the receiving ditch (see pictures below).

3. Solids in the Chlorine Contact Chamber (see pictures below).

Extended Aeration Process Control Parameters and Acceptable Ranges, for The Glade STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.08*	*2*	*4*	*mg/L*
MLSS	*3,230*	*2,500*	*3,500*	*mg/L*
Sludge Volume Index	*108*	*100*	*150*	*mL/g*
30-Minute Settleability	*35%*	*25%*	*50%*	
Clarifier Sludge Blanket Depth	*1.5*	*1*	*4*	*Ft*

Consent Decree Required Jobs to Complete for The Glade STP

Job to complete	Date completed	Job completion Information
Clarifier Clear trees around clarifier for better access to stairs.	3/5/2018	Complete as per request
Chlorine Contact Chamber *Replace rusting baffles	7/26/2019	Complete as per request
Chlorine Contact Chamber Repair hole in ccc wall.	7/26/2019	Complete as per request
Chlorine Contact Chamber Repair hole where Chlorinator connects to ccc.	7/26/2019	Complete as per request
Clarifier Widen gap between effluent baffle and weir.	7/6/2017	Unknown date confirmed on Audit date/ completed
Clarifier Modify transfer pipe and install influent well.	7/6/2017	Unknown date confirmed on Audit date/ completed
Aeration Repair broken diffuser.	7/6/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Provide cover for chlorinator tubes.	7/6/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Replace Chlorinator and provide adequate support	7/6/2017	Unknown date confirmed on Audit date/ completed
Clarifier Install additional skimmer.	7/6/2017	Unknown date confirmed on Audit date/ completed
Install second RAS line	7/6/2017	Unknown date confirmed on Audit date/ completed
STP Repair fence as soon as possible	7/6/2018	Complete as per request
Discharge Install an effluent flow measurement device in a favorable position.	10/19/2018	Unknown date confirmed on 10-19-18, repaired lid

Monticello / LA0075094 / 11/17/2021

Areas of Concern:

1. Weirs were being bypassed due to the uneven weir structure (see picture below).

2. Solids in the Chlorine Contact Chamber (see pictures below).

3. Sludge observed in the receiving ditch (see pictures below).

4. Warning light is not visible from the road due to trees (see picture below).

5. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (clarifier sludge blanket depth) see table below for Monticello STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Monticello STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.65*	*2*	*4*	*mg/L*
MLSS	*2,400*	*2,000*	*3,000*	*mg/L*
Sludge Volume Index	*167*	*125*	*175*	*mL/g*
30-Minute Settleability	*40%*	*25%*	*50%*	
Clarifier Sludge Blanket Depth	*6.5 / 3*	*1*	*3.5*	*ft*

Consent Decree Required Jobs to Complete for the Monticello STP

Job to complete	Date completed	Job completion Information
Aeration Relocate bar screen and influent line	5/29/2018	Complete as per request
STP Repair blower #2.	7/6/2017	Complete as per request
Clarifier Repair skimmer.	7/6/2017	Unknown date confirmed on Audit date/ completed
Aeration Repair broken diffusers	7/6/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Reconfigure installation of Chlorinator.	7/6/2017	Unknown date confirmed on Audit date/ completed
Clarifier Install additional support for RAS Line	7/6/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Provide cover for chlorinator tubes	2/16/2017	Complete as per request
STP Install sample v-notch or other flow measurement system	7/6/2017	Unknown date confirmed on Audit date/ completed

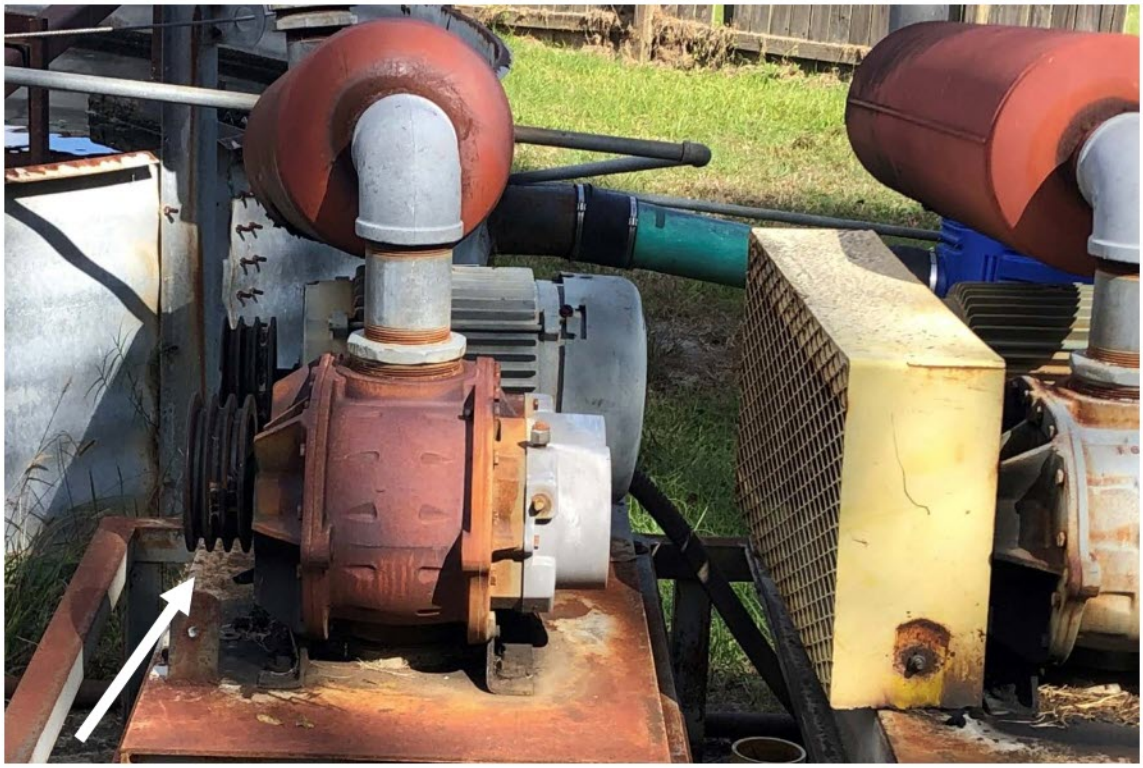
Frenchman's Creek / LA0077798 / 11/17/2021

Areas of Concern:

1. Observed unknown 2-inch pipe at the Chlorine Contact Chamber (see picture below).

2. Solids in the Chlorine Contact Chamber (see pictures below).

3. Aeration blow was not in working condition due to missing belt (see picture below).



4. Skimmer not functioning correctly due to buildup of debris (see pictures below).

5. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (SVI, 30-minute settleability, Clarifier sludge Blanket Depth) see table below for Frenchman's Creek STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Frenchman's Creek STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.23*	*2*	*4*	*mg/L*
MLSS	*2,660*	*2,000*	*3,000*	*mg/L*
Sludge Volume Index	*346*	*125*	*150*	*mL/g*
30-Minute Settleability	*92%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*8*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Frenchman's Creek STP

Job to complete	Date completed	Job completion Information
Clarifier Level the Overflow Weir.	6/30/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Install baffle system	4/26/2019	Was original scheduled on 2-7-17 / 2-11-11 . It is rescheduled for 7-10-18 / 10-1-22
Chlorine Contact Chamber Provide cover for chlorinator tubes.	6/30/2017	Unknown date confirmed on Audit date/ completed
Clarifier Install a second RAS Line.	6/30/2017	Unknown date confirmed on Audit date/ completed
Clarifier Relocate existing Skimmer more towards the center of the clarifier & install an additional Surface Skimmer.	8/6/2020	Complete. Was original scheduled on 2-7-17 / 2-11-11 . It is rescheduled for 7-10-18 / 5-1-21
Clarifier Replace transfer line form the aeration basin to clarifier.	6/30/2017	Unknown date confirmed on Audit date/ completed
STP Install netting over plant	10/23/2017	Complete, removed trees
STP Repair fence as soon as possible	10/25/2017	Complete as per request
STP Repair holes in aeration walls.	4/26/2019	Complete as per request
STP Install housing over blower/motor unit.	9/19/2020	Completed as per request
STP Repair/adjust skimmer in clarifier.	8-6--20	Complete. in progess. Contractor delays schedule to be repaired by another contractor by 12-30-20
STP Replace blower filter covers.	9/19/2018	Complete as per request

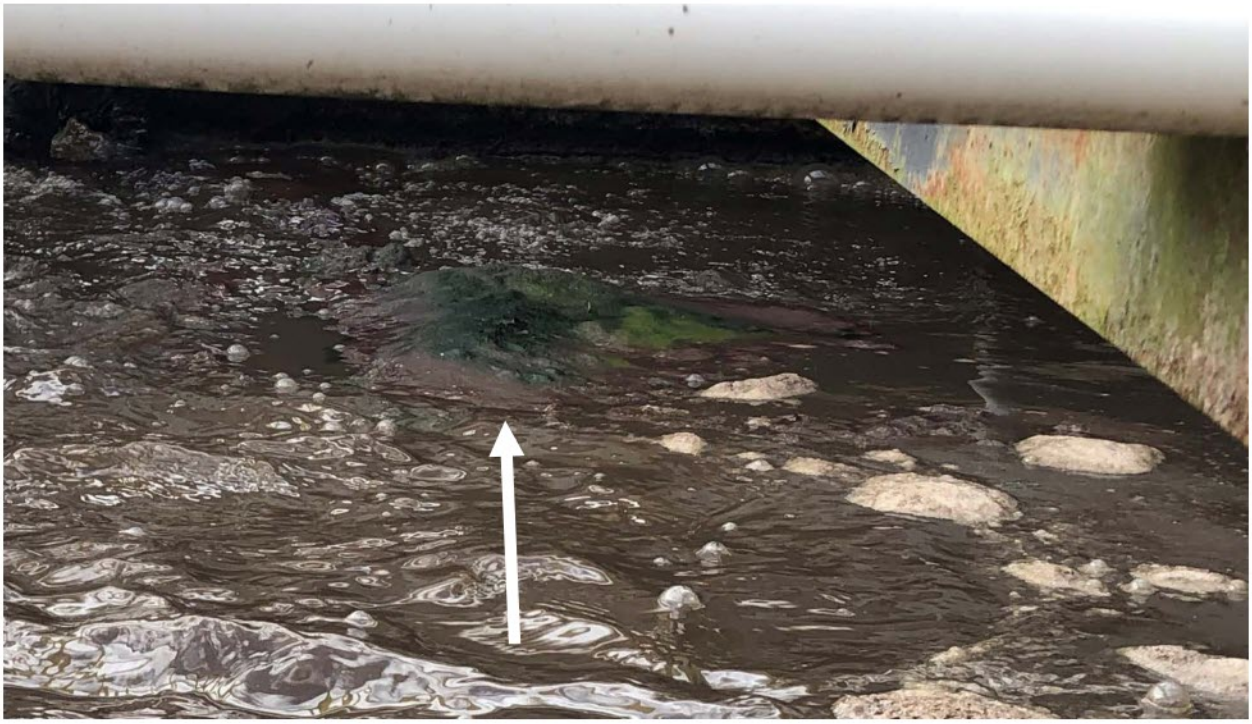
Arrowhead 1 & 2 / LA0062791 / 11/17/2021

Areas of Concern:

1. Solids in the Chlorine Contact Chamber of Arrowhead #2 STP (see picture below).

2. Solids in the Chlorine Contact Chamber of Arrowhead #1 STP. Chamber was cloudy with solids due to aeriation (see picture below).

3. Large mass of debris observed in the aeriation chamber of Arrowhead #1 STP (see picture below).



4. Sludge observed in the receiving ditch (see pictures below).

5. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, clarifier sludge blanket depth) see table below for Arrowhead #1 STP.

6. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Arrowhead #2 STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Arrowhead #1 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.18*	*2*	*4*	*mg/L*
MLSS	*1,490*	*2,500*	*3,500*	*mg/L*
Sludge Volume Index	*282*	*100*	*150*	*mL/g*
30-Minute Settleability	*42%*	*25%*	*50%*	
Clarifier Sludge Blanket Depth	*7*	*1*	*4*	*ft*

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Arrowhead #2 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*3.67*	*2*	*4*	*mg/L*
MLSS	*3,470*	*2,750*	*3,750*	*mg/L*
Sludge Volume Index	*150*	*100*	*150*	*mL/g*
30-Minute Settleability	*52%*	*25%*	*50%*	
Clarifier Sludge Blanket Depth	*5 / 5*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Arrowhead 1 & 2 Creek STP

Job to complete	Date completed	Job completion Information
Chlorine Contact Chamber Install caps on chlorine tubes.	1/8/2018	Complete as per request
Safety/STP Repair holes in clarifier/aeration wall.	1/23/2018	Complete as per request
Clarifier Repair inlet baffle skimmer.	9/20/2018	Complete as per request
Clarifier Level Overflow Weir	6/30/2017	Unknown date confirmed on Audit date/ completed
Discharge Install v-notch sample box or other flow measurement system	1/27/2021	Delayed due to weather and Contractor Scheduled for 5-1-21. Unknown date completed/confirmed on date of Audit (see picture below)

Quail Hollow / LA0078247 / 11/17/2021

Areas of Concern:

1. Sludge observed in the receiving ditch (see pictures below).

2. Warning light is not visible from the road due to trees (see picture below).

3. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, clarifier sludge blanket depth) see table below for Quail Hollow STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Quail Hollow STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.16*	*2*	*4*	*mg/L*
MLSS	*1,960*	*2,000*	*5,000*	*mg/L*
Sludge Volume Index	*128*	*75*	*125*	*mL/g*
30-Minute Settleability	*25%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*5*	*1*	*5*	*ft*

Consent Decree Required Jobs to Complete for the Quail Hollow STP

Job to complete	Date completed	Job completion Information
Aeration Clean, repair or replaced diffusers and evaluate increasing aeration capacity if necessary to maintain a Dissolved Oxygen Concentration of at least 2.0mg/L.	7/6/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Install caps on chlorine tubes.	2/16/2018	Completed as per request
Clarifier Repair/Replace RAS rake, skimmer and drive motor	3/28/2018	Completed as per request
STP Equipment Fabricate and install cover over blower filter cover.	11/17/2021	Delayed due to weather and moving of rounds rescheduled for 12-30-21. Unknown date completed / confirmed on Audit date.

Lanexang Village 1 & 2 / LAG540108 / 11/17/2021

Areas of Concern:

1. Sludge observed in the receiving ditch (see picture below).

2. No solids in the Lanexang Village #2 aeration basin, Sludge Volume Index - 0 -.

3. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O., SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Lanexang Village #1 STP.

4. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Lanexang Village #2 STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Lanexang Village #1 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*7.99*	*2*	*4*	*mg/L*
MLSS	*2,370*	*2,000*	*5,000*	*mg/L*
Sludge Volume Index	*312*	*100*	*150*	*mL/g*
30-Minute Settleability	*74%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*5*	*1*	*4*	*ft*

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Lanexang Village #2 STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*3.25*	*2*	*4*	*mg/L*
MLSS	*138*	*2,000*	*5,000*	*mg/L*
Sludge Volume Index	*0*	*100*	*150*	*mL/g*
30-Minute Settleability	*0%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*1*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Lanexang Village 1 & 2 STP

Job to complete	Date completed	Job completion Information
STP Install sample weir box.	6/5/2017	Unknown date confirmed on Audit date/ completed
STP Repair clogged air diffusers in plant #2.	1/9/2020	Confirmed complete on 1-9-20
STP Repair Chlorinator in plant #2	3/6/2020	Completed as per request
Aeration Repair RAS Line in plant #1	1/9/2020	Confirmed complete on 1-9-20
STP Patch hole in over-flow weir in plant #2.	1/9/2020	Confirmed complete on 1-9-20
STP Install bar screen in plant #2.	6/25/2019	Completed as per Request
Chlorine Contact Chamber Replace missing chlorinator tube & provide cover for chlorinator tubes.	6/5/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Install caps on chlorine tubes on plant #1	2/16/2018	Completed as per request
Repair break in air header	6/5/2017	Unknown date confirmed on Audit date/ completed
STP Replace RAS Line valve in plant #2.	1/9/2020	Completed as per Request
Flow Splitter Install splitter box	7/20/2029	Plants are split by two separate lift station flow splitter not needed confirmed on date of audit.

Abadie Oaks / LA0074853 / 11/18/2021

Areas of Concern:

1. The digester is not being utilized or properly operated as required. The digester was reported to be repaired and utilize on 3/9/2020 per the DOJ consent decree required jobs for Abadie Oaks STP. The digester's utilization with proper operations is part of the plants design.

2. Weir was being bypassed from a section of the weir structure that has been removed and in need of repair (see picture below).eirs were

3. The facility is using a pump to discharge to the receiving ditch. DOJ required a discharge V-notch sampling box and an external effluent lift station to be installed per the DOJ consent decree required jobs for Abadie Oaks STP (see picture below).

4. Solids in the Chlorine Contact Chamber of Arrowhead #2 STP (see picture below).

5. Sludge observed in the receiving ditch (see pictures below).

6. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O., SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Abadie Oaks STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Abadie Oaks STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*1.92*	*2*	*4*	*mg/L*
MLSS	*3,040*	*3,000*	*4,000*	*mg/L*
Sludge Volume Index	*82*	*100*	*150*	*mL/g*
30-Minute Settleability	*25%*	*30%*	*50%*	
Clarifier Sludge Blanket Depth	*4 / 4.5*	*1*	*4*	*Ft*

Consent Decree Required Jobs to Complete for the Abadie Oaks STP

Job to complete	Date completed	Job completion Information
Chlorine Contact Chamber Install caps on chlorine tubes.	2/16/2018	Complete as per request
Discharge Install v-notch sample box		Delayed due to weather and Contractor Scheduled for 5-1-21
Clarifier Raise overflow weir trough approximately 1 foot	12/4/2018	Complete as per request
Chlorine Contact Chamber Replace rusting baffles and raise water level an additional 2 ft.	10/19/2018	Complete as per request
Clarifier Install skimmer	3/9/2020	confirmed complete on 3-9-20
Discharge Install external effluent lift station		Delayed due to weather and Contractor Scheduled for 5-1-21
Digester Make necessary repairs to utilize as part of sludge removal	3/9/2020	confirmed complete on 3-9-20
STP Replace blower filter cover	8/16/2018	Complete as per request
STP Replace/reinstall diffuser drops	2/19/2020	Complete as per request
Clarifier Level or replace Overflow Weir Trough	7/26/2017	Unknown date confirmed on Audit date/ completed

Lancaster Estates / LA0074764 / 11/18/2021

Areas of Concern:

1. Solids were being discharged over the v-Notch weir into the receiving ditch at the time of the inspection (see pictures below).

2. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (MLSS, SVI, 30-minute settleability, clarifier sludge blanket depth) see table below for Lancaster Estates STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Lancaster Estates STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*2.26*	*2*	*4*	*mg/L*
MLSS	*1,820*	*2,000*	*3,000*	*mg/L*
Sludge Volume Index	*291*	*75*	*125*	*mL/g*
30-Minute Settleability	*53%*	*20%*	*35%*	
Clarifier Sludge Blanket Depth	*5 / 4*	*1*	*3.5*	*ft*

Consent Decree Required Jobs to Complete for the Lancaster Estates STP

Job to complete	Date completed	Job completion Information
STP Replace blower filter cover.	8/16/2018	Completed as per request
STP Adjust blower cover to fit filter cover or fabricate cover for filter cover.	7/18/2018	Completed as per request
Chlorine Contact Chamber Treat CCC interior for rust.	8/29/2019	Completed as per request
Discharge Structure Installed sample v-notch	7/26/2017	Unknown date confirmed on Audit date/ completed
Clarifier Level overflow weir. Modify to allow water to enter into the most upstream end of the trough.	7/26/2017	Unknown date confirmed on Audit date/ completed
STP Continue to install netting over plant	1/22/2021	Delayed due to Contractor. Scheduled for no later than 5-1-21

Pecan Acres / LA0078000 / 11/18/2021

Areas of Concern:

1. The digester is <u>not</u> being utilized or properly operated as required. The digester was reported to be repaired and utilize on 6/6/2017 per the DOJ consent decree required jobs for Abadie Oaks STP. The digester's utilization with proper operations is part of the plants design.

2. New bar-screen structure built and in place, not currently hooked up (see picture below).

3. Sludge observed in the receiving ditch (see pictures below).

4. Wood supports are worn and need to be replaced with metal supports (see picture below).

5. Process control parameters and acceptable ranges were not being maintained at the time of the inspection (D.O., SVI) see table below for Pecan Acres STP.

Extended Aeration Process Control Parameters and Acceptable Ranges, for the Pecan Acres STP

Parameter	*Inspection Value*	*Minimum Value*	*Maximum Value*	*Units*
Dissolved Oxygen (DO)	*4.40*	*2*	*4*	*mg/L*
MLSS	*3,230*	*3,000*	*4,000*	*mg/L*
Sludge Volume Index	*139*	*75*	*125*	*mL/g*
30-Minute Settleability	*45%*	*20%*	*50%*	
Clarifier Sludge Blanket Depth	*3*	*1*	*4*	*ft*

Consent Decree Required Jobs to Complete for the Pecan Acres STP

Job to complete	Date completed	Job completion Information
Clarifier Level overflow weir.	6/6/2017	Unknown date confirmed on Audit date/ completed
Chlorine Contact Chamber Install Chlorinator and baffles in CCC.	6/6/2017	Unknown date confirmed on Audit date/ completed
STP Install netting over plant.		Was original scheduled on 1-7-14 / 10-1-22. It is rescheduled for 10-1-22 / 5-1-21
Clarifier Install second RAS Line if needed	6/6/2017	Unknown date confirmed on Audit date/ completed
STP Segregate digester and install supernatant return line.	6/6/2017	Unknown date confirmed on Audit date/ completed

Section III – AREAS OF CONCERN

After each site audit I met with Mr. Lawrence Messmer and/or Mrs. Wendy Cahanin to reiterate observations and areas of concern for each site. Those observations and areas of concern are detailed above for each site visited.

Section IV – FOLLOW UP

1. I requested the results of the smoke test and associated repairs performed at Suburban Estates (LAG560240) during the site visit. At the time of this report the requested documents had not been received.

2. I requested the results of the smoke test and associated repairs performed at Park 90 (LAG540114) during the site visit. At the time of this report the requested documents had not been received.

3. I requested the customer list for Park 90 (LAG540114) during the site visit. At the time of this report the requested documents had not been received.

4. I requested the results of the smoke test and associated repairs performed and records of the flow equalization conducted at ShangriLa (LAG560018) during the site visit. At the time of this report the requested documents had not been received.

Section V – LIST OF APPENDICES

Appendix 1 – Spreadsheet of the facilities visited with information obtained at each site.

Appendix 1
Spreadsheet of facilities visited

with information obtained from the visit.

LPDES Permit #	STP Name	City	Parish	inspection date	start time	end time	MLSS	Set Test	SVI		Areas of concern
LAG560179	Crozier Heights	Houma	Terrebonne	11/15/2021	9:30 AM	10:10 AM	6060	200	33.0		Weir bypass need repair
LAG540239	Dugas (Community Sewer)	Thibodaux	Lafourche	11/15/2021	10:48 AM	11:43 AM	4820	600	124.5		3 foot sludge CCC / sludge in receiving ditch
LAG570018	Eureka Heights 1& 2	Gray	Terrebonne	11/15/2021	12:12 PM	12:55 PM	1890	510	269.8	#1	
							2400	200	83.3	#2	
LAG560240	Suburban Estates	Gray	Terrebonne	11/15/2021	1:00 PM	1:26 PM	2530	320	126.5		
LAG560015	Willowdale	Gray	Terrebonne	11/15/2021	1:32 PM	2:10 PM	2210	0	0.0		No solids in system
LA0078450	Beau Parterre	Youngsville	Lafayette	11/16/2021	8:49 AM	9:27 AM	2470	480	194.3		Sludge in receiving ditch
LA0074951	Avies Knoll	Lafayette	Lafayette	11/16/2021	9:36 AM	10:25 AM	3520	350	99.4	#1	Digester is not being operated or utilized
							3920	600	153.1	#2	
LA0075281	Shadowwood	Lafayette	Lafayette	11/16/2021	10:30 AM	11:05 AM	2630	150	57.0		
LAG540114	Park 90	Broussard	Lafayette	11/16/2021	11:52 AM	12:13 PM	237	0	0.0		No solids in system
LAG560018	ShangriLa	New Iberia	Iberia	11/16/2021	12:34 PM	1:14 PM	3630	400	110.2		Unknown Tank not being used in system
LAG560204	Robichaux Ridge	New Iberia	Iberia	11/16/2021	1:26 PM	1:42 PM	2010	0	0.0		No solids in system
LAG542026	Hummingbird Plaza/ Wolf Creek	Lafayette	Lafayette	11/17/2021	8:48 AM	9:27 AM	1370	920	671.5		Digester is not being operated or utilized / Heavy solids in receiving ditch
LA0078263	Jackson Square/ Pontalba	Duson	Lafayette	11/17/2021	9:38 AM	10:13 AM	2230	240	107.6		First aeration cell was not utilized as required by DOJ
LA0077917	The Glade	Lafayette	Lafayette	11/17/2021	10:28 AM	11:02 AM	3230	350	108.4		Sludge in receiving ditch / weir uneven flow
LA0075094	Monticello	Lafayette	Lafayette	11/17/2021	11:22 AM	11:56 AM	2400	400	166.7		weir uneven flow
LA0077798	Frenchman's Creek	Lafayette	Lafayette	11/17/2021	12:03 PM	12:47 PM	2660	920	345.9		2 foot of solids in CCC
LA0062791	Arrowhead	Lafayette	Lafayette	11/17/2021	12:52 PM	1:46 PM	1490	420	281.9	#1	Sludge in receiving ditch
							3470	520	149.9	#2	
LA0078247	Quail Hollow/ La Vil	Lafayette	Lafayette	11/17/2021	1:58 PM	2:44 PM	1960	250	127.6		Sludge in receiving ditch
LAG540108	Lanexang Village	Broussard	Iberia	11/17/2021	3:16 PM	4:00 PM	2370	740	312.2	#1	Sludge in receiving ditch
										#2	
LA0074853	Abadie Oaks	Abbeville	Vermillion	11/18/2021	8:37 AM	9:26 AM	3040	250	82.2		Digester is not being utilized / bypass of wiers / sludge in receiving ditch
LA0074764	Lancaster Estates	Lafayette	Lafayette	11/18/2021	9:44 AM	10:22 AM	1820	530	291.2		Solids visabley going over discharge weir to the receiving ditch
LA0078000	Pecan Acres	Lafayette	Lafayette	11/18/2021	10:35 AM	11:11 AM	3230	450	139.3		Digester is not being utilized / bypass of new inlet bar screen / sludge in receiving ditch