MWD_WQ0010134008_CO_20170525_Final Report **Texas Commission on Environmental Quality Investigation Report**

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

Customer: City of Pearland Customer Number: CN600595052

Regulated Entity Name: CITY OF PEARLAND Regulated Entity Number: RN101920007

Investigation # 1416272

Incident Numbers

258611

Investigator:

ISAIAH LONGORIA

Site Classification DOMESTIC MAJOR

Conducted: 05/25/2017 -- 05/25/2017

SIC Code: 4952

NAIC Code: 221320

Program(s):

WASTEWATER

Investigation Type: Compliance Investigation

Location: LOCATED APPROX 1000 FT N OF

MCHARD RD APPROX 1.25 MI W OF THE INTERX OF MCHARD RD AND SH 288 IN BRAZORIA

COUNTY

Additional ID(s):

TX0117501

WQ0010134008

Address:,

Local Unit: REGION 12 - HOUSTON

Activity Type(s):

WWLSTMAJFC - Lift Station

Maintenance/Major Focused WWCMPL - WW Complaint

Principal(s):

Role

Name

RESPONDENT

CITY OF PEARLAND

Contact(s):

Role

Title

MAYOR

Name

Phone

REGULATED **ENTITY MAIL**

CONTACT

HON TOM REED

Work

(281) 652-1600

PARTICIPATED

WASTEWATER TREATMENT

MR MARK WAHLSTROM Work Cell

(281) 652-1778 (713) 775-4082

SUPERINTENDENT

Other Staff Member(s):

Role

IN

Name

QA Reviewer

NICHOLE NUNES

Investigator Supervisor

NICHOLE NUNES **WESTIN MASSEY**

Investigator

DUSTIN ROBERTS

Associated Check List

Checklist Name

Unit Name

WQ COMPLAINT INVESTIGATION

COMPL

WQ FOCUSED INVESTIGATION - INTERIM -

LIFT STATION

LIFT STATION - revised 10/17/2011

Investigation Comments:

INTRODUCTION:

On May 22, 2017, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Water Section received an anonymous complaint, (Consolidated Compliance and Enforcement Data System (CCEDS) Incident No. 258611), alleging a sewage smell.

A Water Quality Complaint investigation was conducted at the Reflection Bay Water Reclamation Facility (City of Pearland) on May 25, 2017 by Ms. Nichole Batista Nunes, Mr. Isaiah Longoria, and Mr. Dustin Roberts, Environmental Investigators with the TCEQ Houston Region Office. The investigation was conducted as a result of a complaint; therefore, no notification of the investigation was given. The allegation of the complaint was not confirmed at the time of the investigation. A complaint letter was not transmitted to the complainant, due to the anonymity of the complainant.

BACKGROUND

The TCEQ Houston Region Office files were reviewed and a TCEQ database search was conducted pursuant to this investigation. The previous compliance investigation (CCEDS Investigation Number 1388611) was conducted on January 25, 2017. One alleged violation was cited for the unauthorized discharge of untreated wastewater, and was subsequently resolved on January 25, 2017. An Additional Issue was also cited during the investigation.

GENERAL FACILITY AND PROCESS INFORMATION

The City of Pearland's Reflection Bay Water Reclamation Facility (WRF) operates two plants in parallel. An activated sludge facility that is operated in the sequential batch reactor (SBR) mode and an emergency package plant operated in the conventional mode. The facility is permitted to discharge 3.0 million gallons per day (MGD). The major treatment units for the SBR consists of four aeration basins, two clothe media filters, two digester basins, and a sludge belt press. The major treatment units for the package plant consists of eight aeration basins, four clarifiers and one clothe media filters. The sludge is pumped to the SBR digester. Effluents from both plants comingle before disinfection at the ultra violet (UV) light system prior to discharge. The collection system includes one onsite lift station and five offsite lift stations.

There is active construction going on at the facility for significant plant modifications and upgrades. The improvement includes four new SBR units, conversion of the original four SBR units to two units, two new sludge belt presses, new disc filter systems, new head works, new chlorinated non-potable water system, new lift station and rehabilitation of the existing lift station under a roof, new blower building for the SBR, and installation of new UV equipment in the existing UV channel.

SITE INVESTIGATION

On May 25, 2017, a site investigation was conducted by Ms. Batista Nunes, Mr. Longoria, and Mr. Roberts. The investigators arrived at the Reflection Bay WRF and investigated the area for any objectionable odors. The investigators began an odor survey (Supplemental Investigator's Odor Intensity Time Log—Attachment 1) at approximately 01:10 PM at Location 1 on the Aerial Map (Attachment 2) for fifteen minutes; the wind direction was documented at South-Southwest (downwind of the facility) at approximately 7 miles per hour (mph), the ambient temperature was approximately 81 degrees Fahrenheit; weather conditions were based on WeatherBug.com data. After fifteen minutes, no unusual or objectionable odors were detected.

At the conclusion of the fifteen minute odor survey, the investigators went on-site at the facility and performed a brief walk through and inspection of the plant. The treatment units appeared to be operating properly.

A deodorizing unit was observed at the onsite lift station that was connected to a misting system that surrounded the lift station and SBR units.

Immediately after inspection of the plant, the investigators met with Mr. Mark Wahlstrom, Wastewater Treatment Superintendent with the City of Pearland. Mr. Wahlstrom allowed access to the off-site lift station located approximately 136 yards south of the intersection of Eagle Cove Drive and Biscayne Bay Drive, Pearland, Texas

CITY OF PEARLAND -

5/25/2017 Inv. # - 1416272

Page 3 of 3

77584. The investigators performed a lift station focused investigation to determine compliance with regulations. The lift station was observed to be in compliance with applicable regulations. The lift station is also fitted with a deodorizing unit that has two types of carbon filters to try to help abate objectionable odors.

CONCLUSION

The complainant alleged a sewage smell coming from the City of Pearland Reflection Bay Water Reclamation Facility that affects the Shadow Creek Ranch area. No unusual or objectionable odor was detected during the investigation; therefore, the complaint was unconfirmed.

SUMMARY OF INVESTIGATION FINDINGS

No Violations Associated to this Investigation

Signed With My Line Environmental Investigator	Date <u>6/23/17</u>
Signed Supervisor	Date 6/26/17
Attachments: (in order of final report st	ıbmittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type) : 16 Actua	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	See listing Attachments
Notice of Registration	

City of Pearland Reflection Bay Water Reclamation Facility 1818 Reflection Bay Drive, Pearland, Texas 77584 RN101920007 Investigation No. 1416272 Incident No. 258611 Complaint Investigation

LIST OF ATTACHMENTS

- 1. Supplemental Investigator's Odor Intensity Time Log
- 2. Aerial Map

		,

Attachment 1

		*	

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	5/25	Start Time:	1:10	@ outfall	(downwine	1
			-	<u> </u>	(4 3

Minutes	Odor Intensity VL, L, M, S,VS
1 min	ND
2	11
3	н
4	1/
5	Ц
6	11
7	u
8	11
9	11
10	41
11	VI .
12	11
13	11
14	t)
15	βť
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	<
29	
30	

	1997 - 19	
Minutes	Odor Intensity VL, L, M, S, VS	
31 min		
32		
.33		
34		
35		
36		
37		
38		,
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
_50		
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		

Offensive	eness: Highly	Offensive	Ur	ıpleasant	Not Unplea	sant
Weighted A	Average Intensi	ty:				
	VS	S	M	L	VL	No Odor
1 Min						110 0001
10 Min						
1 Hour						

wruels SSW about Tough; gusts @about 11

Attachment 2

		e



TO THE LIGHT HE TO THE

TENTA I

Bryan W. Shaw, Ph.D., P.E., Chairman Toby Baker, Commissioner Jon Niermann, Commissioner Richard A. Hyde, P.E., Executive Director



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 26, 2017

Tom Reed, Mayor City of Pearland 3519 Liberty Drive Pearland, Texas 77581-5416

Re:

Investigation Request at:

City of Pearland Reflection Bay Water Reclamation Facility located at 1818 Reflection

Bay Drive, Pearland (Brazoria County), Texas 77548 TCEQ ID No.: WQ0010134008, EPA ID No.: TX0117501

Investigation No.: 1416272 Incident No(s): 258611

Dear Mayor Reed:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on May 22, 2017 a request for assistance regarding the sewage smell at the above-referenced facility. In response to this request, Mr. Isaiah Longoria, Ms. Nichole Batista Nunes, and Mr. Dustin Roberts of this office conducted an investigation on May 25, 2017. No violations are being alleged as a result of the investigation.

For more information about our complaint process, you may access the publication GI-278: Do You Want to Make an Environmental Complaint? Do You Have Information or Evidence? on our website at www.tceq.texas.gov.

We appreciate your assistance in this matter and your interest in protecting the quality of our environment. If you have any questions concerning these findings, or if we can be of further assistance, please contact Mr. Isaiah Longoria at this office 713-767-3698.

Sincerely,

Westin Massey, Team Leader

இர் விருந்து அம்முற்ற நடித்த நடித்த நடித்த நடித்த நடித்த நடி

en de la companya de

Water Section
Houston Region Office
WM/IL/JM

Name of the Parish of the

West mild was the second

SELECTION IN II.

			Ÿ	
		8		
	E			ł
ű .				
		12		
÷				
2				
*				
150				
		0		
ă.				