AIR CP_104046545_CP_20160224_INVESTIGATION_1314183 Texas Commission on Environmental Quality Investigation Report

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Customer: Generic Incident Principal Customer Number: CN602295370

Regulated Entity Name: GENERIC INCIDENT ZIP CODE 77584

Regulated Entity Number: RN104046545

Investigation # 1314183 Incident Numbers

228806 227414

Investigator: MENGISTU LEMMA Site Classification

Conducted: 02/03/2016 -- 02/24/2016 No Industry Code Assigned

Program(s): AIR QUALITY NON PERMITTED

Investigation Type: Compliance Investigation **Location:**

Additional ID(s):

Address: , Local Unit: REGION 12 - HOUSTON

Activity Type(s): AIRCOMPL - AIR CMPL - AIR

COMPLAINT INV

Principal(s):

Role Name

RESPONDENT GENERIC INCIDENT PRINCIPAL

Contact(s):

Role Title Name Phone

Other Staff Member(s):

Role Name

QA Reviewer ROBERT AGUILAR JR
Investigator REGINA RHODA
Supervisor ROBERT AGUILAR JR

Associated Check List

<u>Checklist Name</u> <u>Unit Name</u>

AIR COMPLAINT INVESTIGATION Area Wide

Investigation Comments:

INTRODUCTION

Introduction

From February 3, 2016 through February 24, 2016 the Texas Commission on Environmental Quality (TCEQ) Houston Regional Office received more than 130 complaints as part of the ongoing complaint investigation of various odors near the Shadow Creek neighborhood in the City of Pearland, Brazoria and Ft. Bend counties of Texas. Some complaints were received by telephone and most by email. The TCEQ Incident numbers for this investigation are 227414 and 228806. The complainants stated that there are mysterious odors in the area that

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are intermittent but has been going on for a long time. Some of the complainants stated that it has been going on since they moved to the area more than 3 years ago and others stated that they start experiencing it within the past six months to a year. Most of the complainants stated that they don't have any idea where the odor is coming from. Some complainants suspected the odors are coming from the Blue Ridge Landfill and others suggested the chemical plants in the vicinity such as Akzo Nobel. The complainants stated that the odor gets stronger in the evening to night hours. Different people described the mysterious odors in different ways: spoiled trash, rotten eggs, chemical smell, acidic smell, and gas smell The complainants described the odors as awful, sicking, pungent, very strong, and bad.

Some complainants alleged that the odor gives them headaches and others complained of nausea and vomiting when the odor is stronger. Some complainants stated they could not come out of their house when the odor is strong and are worried about the long time effect on their health and children's health. Others are worried about their property value decreasing because the odor is driving other homeowners out of the area.

The complaint was assigned to the investigator, Mr. Mengistu Lemma on February 17, 2016. The investigator conducted a 2-hour reconnaissance drive by investigation on February 19, 2016. The weather was sunny, temperature was 62 degrees Fahrenheit, winds were 7 miles per hour (mph) from the south southeast and there was no precipitation. The investigator drove to the allegedly affected area and located the potential sources. However, the investigator did not detect any odor on this day.

The investigator contacted two of the complainants on February 22, 2016. The investigator scheduled an onsite investigation for February 24, 2016.

Investigation Narrative

On February 24, 2016 at 10:40 A.M. TCEQ investigators Mr. Lemma and Ms. Regina Rhoda arrived in the general vicinity where most of the complainants indicated they experienced the odor, the north and northwest section of the Shadow Creek subdivision. A Summa Canister was brought along to collect a grab sample if the investigators encountered odor.

The weather was sunny, temperature was 59 degree Fahrenheit, winds were 12 miles per hour from the northwest, and the humidity was 48%. There was no precipitation.

The Shadow Creek Subdivision is a large subdivision that is bordered to the east by State Highway 288, to the north by Sam Houston Parkway, to the west by FM 521 (Almeda Road) and to the south by South Fork Drive. The major part of the subdivision lies in Brazoria County, but the western part of the subdivision extends into Ft. Bend County. Most of the complainants for this investigation are concentrated north of Broadway Street, west of Kirby Drive, south of Shadow Creek Parkway, and north of Almeda Road (Attachment 1).

The investigators conducted an audio, visual and olfactory (AVO) observation while driving from Sam Houston Parkway south on Almeda Road. There are several facilities along Almeda Road. that could be considered potential sources for the alleged odor. Some of this facilities include Hunt & Hunt Machine Shop, auto body shop, Akzo Nobel Surfactants, Flexicare of Texas, an Energy Transfer Station and Blue Ridge Landfill.

As the investigators were driving south on Almeda Road, they detected a faint odor just south of McHard Road. The odor started getting stronger about 1.4 miles south of McHard Road on Almeda Road. The odor was difficult to identify but both investigators agreed that it had a smell of spoiled garbage with a hint of some type of chemical odor. When the investigators reached W. Broadway Street, it was becoming difficult to detect. The investigators then turned back to the area where the strongest spoiled garbage odor was detected. The investigators then stopped at the entrance gate of the Energy Transfer Station located about half way between McHard Road and Broadway Street on the west side of Almeda Road. The time was 11:30 A.M. This location was selected due to the strongest odor, and safe location to park the vehicle. An odor intensity time log was completed (Attachment 3).

The frequency, intensity, duration and offensiveness of the odor was characterized by the investigators as follows. As far as the frequency is concerned, the odor was detected during the sampling process. However, the intensity of the odor was changing from moderate to light and very light and back to light during the duration of the sampling process. The odor was classified as offensive.

Prior to collecting the grab sample, the pressure of the Summa Canister was checked using the Druck instrument

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(Serial Number 8000013764). The Druck registered 0.02 Hg for the pre-sampling pressure. The grab sample was collected for 15 seconds at 11:51 A.M. with the Summa Canister (Canister # No624). After collecting the sample, the pressure was checked with the same Druck. The Druck registered 29.12 Hg. The canister was shut tight and stored back in the vehicle. The coordinates for the sample collection location is N 290 33.695' W 950 26.241.

Next, the investigators started driving through the neighborhood streets where some of the complainants' houses are located and continued their audio visual and olfactory (AVO) observations. No detectable odor was observed. The investigators detected very weak odors intermittently. The investigators left the area at 3:00 p.m. and headed back to the office.

Upon arrival at the office, the lead investigator secured the sample in a locked metal cabinet. On February 25, 2016 the investigator prepared the sample for shipment with a chain of custody form (Attachment 4). The investigator then signed the chain of custody form and relinquished the package for shipment. On February 26, 2016 the investigator called the laboratory and they confirmed receipt of the sample.

The analytical results of the grab sample were received by the investigator on March 22, 2016. However, the results were deemed not valid because the lab reported that the canister was received at ambient pressure and a valid leak check could not be performed. Therefore, it was not possible to use the analytical results to identify the alleged odors during this investigation.

Facility Authorization Narrative

Ther investigators conducted a general area survey. The investigators did not enter any facilities because the facilities could not be identified as sources of the odor. Therefore, no site visit was conducted.

Exit Interview

An exit interview was not conducted since there were no alleged violations, additional issues, or records requested.

GENERAL FACILITY AND PROCESS INFORMATION

Process Description

N/A

BACKGROUND

Agreed Orders, Court Orders, and Other Compliance Agreements

Based on review of CCEDS and the regional office files, there were no agreed orders, court orders, or other compliance agreements for the site.

Prior Enforcement Issues

Based on a review of CCEDS and the regional office files, no violations have been issued by the TCEQ to the alleged source during the past five years.

Complaints

Based on a review of CCEDS during the past five years, there are hundreds of odor complaint received and other investigations are being conducted by the Region 12 Office concurrently.

ADDITIONAL INFORMATION

Conclusions, Recommendations, and Current Enforcement Actions

Based on the TCEQ's Odor Complaint Investigation Procedures and application of the FIDO Chart, an "offensive" odor with an intensity of "very light" would have to be present on a daily basis continuously for at least 12 hours to constitute a nuisance. Although the investigators confirmed an odor, a nuisance condition and source of odor

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could not be confirmed at the time.	
Based on this investigation, no violations are being alleged.	
Additional Issues	
No additional issues were noted during this investigation.	
REPORT ATTACHMENTS	
 Area Map Investigator's Odor Log Sampling Chain of Custody Form 	
No Violations Associated to t	this Investigation
	11/22/14
Environmental Investigator	Date 1/28/16
Signed Supervisor	Date 4 38 16
Attachments: (in order of final report subn	nittal)
Enforcement Action Request (EAR)	Maps, Plans, Sketches
Letter to Facility (specify type):	Photographs
Investigation Report	Correspondence from the facility
Sample Analysis Results	Other (specify):
Manifests	ATT. 1: avea Mar
Notice of Registration	ATT. 2: Oder Los
	ATT. 3 - Sampling Chain of
	Custody Form

Attachment 1 Area Map

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Pearland Odor Compliant Investigation
Pearland, Brazoria/Ft. Bend Counties, TX.

February 24, 2016

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Attachment 2 Investigators Odor Log

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Pearland Odor Compliant Investigation
Pearland, Brazoria/Ft. Bend Counties, TX.

February 24, 2016

Investigator's Odor Intensity Time Log

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Attachment 3 Sampling Chain of Custody Form

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February 24, 2016

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY Field Canister Sampling Data Sheet and Chain-of-Custody

Final Site No.

Page 2 of 2	Investigation Type: 1314 Air Account No. R.J. 10	1123 40 110 59/01/12
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