

AIR CP\_102610102\_CP\_20160525\_INVESTIGATION\_1349609\_  
**Texas Commission on Environmental Quality**  
**Investigation Report**

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**Customer: Blue Ridge Landfill TX, LP**  
**Customer Number: CN602820599**

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**Regulated Entity Name: BLUE RIDGE LANDFILL**  
**Regulated Entity Number: RN102610102**

**Investigation #** 1349609

**Incident Numbers**

**Investigator:** SAMUEL CORTEZ

**Site Classification**

**Conducted:** 05/25/2016 -- 05/25/2016

**NAIC Code:** 562212

**SIC Code:** 4953

**SIC Code:** 1521

**Program(s):** AIR QUALITY NON PERMITTED

**Investigation Type:** Site Assessment

**Location:** LOCATED ON 2200 FM 521

**Additional ID(s):**

**Address:** 2200 FM 521 RD,  
FRESNO, TX , 77545

**Local Unit:** REGION 12 - HOUSTON

**Activity Type(s):** FLAIRODOR - AIR FLAIRODOR - FOC  
INV ODOR SURVEY

**Principal(s):**

<b>Role</b>	<b>Name</b>
RESPONDENT	BLUE RIDGE LANDFILL TX LP

**Contact(s):**

<b>Role</b>	<b>Title</b>	<b>Name</b>	<b>Phone</b>
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	

**Other Staff Member(s):**

<b>Role</b>	<b>Name</b>
Supervisor	ROBERT AGUILAR JR
Investigator	GREGORY CROOK
QA Reviewer	ROBERT AGUILAR JR

**Associated Check List**

<b><u>Checklist Name</u></b>	<b><u>Unit Name</u></b>
AIR FOCUSED INVESTIGATON - ODOR SURVEY	Blueridge Landfill

**Investigation Comments:**

INTRODUCTION/ INVESTIGATION SUMMARY  
Introduction

On May 25, 2016, Mr. Samuel Cortez and Mr. Chris Crook of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted a focused odor survey investigation in the Shadow Creek Ranch

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Subdivision, in Pearland, and in Fort Bend, Brazoria, and Harris counties in the vicinity of Shadow Creek Ranch. The purpose of this investigation (Investigation Typecode FI AIR ODOR) was to survey the area for odor sources. The TCEQ investigators conducted odor surveys from May 23, 2016 through May 26, 2016.

### Investigation Narrative

The investigation was conducted on May 25, 2016. The surrounding land use is a mix of residential, industrial, and commercial areas. The terrain is flat with sporadic forest. Meteorological conditions were as follows: Cloud Cover: Mostly Cloudy; Temperature: 81° Fahrenheit; Wind Direction: Southeast; Wind Speed: Approximately 6.9 to 10.4 miles per hour; Precipitation: 0.0 inches; Source of Meteorological Conditions: Weather Underground (KAXH).

The investigators arrived at Shadow Creek Ranch Subdivision at 12:00 a.m. and conducted a survey starting at the intersection of the Fort Bend Toll Road and east on McHard Road. It was noted that a gas flare was not in operation southwest of the intersection of the Fort Bend Toll Road and McHard Road. A very light odor was detected on McHard Road between Chimney Rock Road and Hiram Clarke Road. The survey continued on McHard road through the intersection of FM 521 to Trinity Bay Drive and through the Shadow Creek Ranch neighborhood along the streets of Trinity Bay Drive, Arcadia Bay Drive, and Windward Bay Drive. No odors were detected through the neighborhood and the first odor survey concluded at 12:40 a.m. See Attachment 1 Survey Route A for more details.

A second survey was conducted back on McHard Road west bound to the intersection of Park Manor Drive. Light odors were detected at the intersection but were no longer detected upon entry into the neighborhood up to Ridgemont Elementary School. This survey continued back on Park Manor Drive to McHard Road and east bound toward FM 521. The second odor survey concluded at 1:15 a.m. See Attachment 2 Survey Route B for more details.

At approximately 1:15 a.m., it was noted that a major fire was in progress in a planned survey route (See Attachment 3 Survey Route C for more details). The fire was located at a warehouse lumber yard and resulted in multiple fire departments responding. The investigators spoke with responders from the Damon Fire Department to ensure the safety of the surrounding area; the investigators departed the area after learning that the area was going to be blocked indefinitely. Therefore, Survey Route C was inaccessible for the remainder of the investigation.

At approximately 1:45 a.m. until 2:30 a.m., the investigators proceeded through the Shadow Creek Ranch neighborhood as detailed in Survey Route A, and no odors were detected.

The investigators returned to the intersection of McHard Road and Park Manor Drive and proceeded to conduct an odor intensity time log (See Attachment 4) between 3:00 a.m. and 4:00 a.m. During this time period the investigators detected an odor with a very light intensity, there were also periods in which no odor was detected. The odor description was that of landfill leachate and considered highly offensive. Due to the very light intensity with periods without detection, a nuisance condition was not present at the time of the odor survey.

At approximately 4:00 a.m. until 4:35 a.m., the investigators proceeded through the Shadow Creek Ranch neighborhood via Survey Route A and no odors were detected. At approximately 4:35 a.m. until 5:00 a.m., the investigators proceeded through Survey Route B and no odors were detected.

The investigator departed the area at 5:00 a.m. and concluded the investigation.

### Exit Interview

An exit interview was not conducted.

## GENERAL FACILITY AND PROCESS INFORMATION

### Process Description

Blue Ridge Landfill is a municipal solid waste landfill with a landfill gas collection and control system.

## BACKGROUND

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**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 related to air quality violations for the site.

**Prior Enforcement Issues**

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

**Complaints**

Based on a review of CCEDS and regional office records, there have been hundreds of odor complaints received from within the survey area and numerous investigations related to odors. At the time of the review, multiple related odor investigations were being conducted by the Region 12 office.

**ADDITIONAL INFORMATION**

**Conclusions, Recommendations, and Current Enforcement Actions**

No odors were detected throughout the investigation. The Frequency, Intensity, Duration and Offensiveness (FIDO) chart categorizes the landfill gas odor as highly offensive and the sweet, floral, honeysuckle odor could be categorized as not unpleasant. In order to confirm a nuisance, a highly offensive odor has to last one hour with a very strong intensity as a single occurrence. A not unpleasant odor has to last more than 12 hours with a monthly frequency to confirm a nuisance. According to the FIDO chart, the landfill gas did not reach a nuisance level. Based on the odors and weather conditions (See attachment 3), the source of the odors were determined to be from Blue Ridge Landfill.

**Additional Issues**

No additional issues were noted during this investigation.

**REPORT ATTACHMENTS**

1. Survey Route A
2. Survey Route B
3. Survey Route C
4. Odor Log and Notes

**No Violations Associated to this Investigation**

Signed

  
Environmental Investigator

Date

9/20/16

Signed

  
Supervisor

Date

9/20/16

**Attachments: (in order of final report submittal)**

Enforcement Action Request (EAR)

Letter to Facility (specify type) : \_\_\_\_\_

Investigation Report

Sample Analysis Results

Manifests

Notice of Registration

Maps, Plans, Sketches

Photographs

Correspondence from the facility

Other (specify) :

See Report Attachments

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