

AIR CP_104046255_CP_20181011_INVESTIGATION_1523460_
Texas Commission on Environmental Quality
Investigation Report

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

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1523460

Investigator: DANIELLE WOODS

Conducted: 10/11/2018 -- 10/11/2018

Incident Numbers

Site Classification

NAIC Code: 562212

NAIC Code: 486210

SIC Code: 4922

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): FIAIRODOR - AIR FIAIRODOR - FOC
INV ODOR SURVEY

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

Role

Title

Name

Phone

REGULATED
ENTITY
CONTACT

DIVISION MANGER

MR MARK MEADOWS

Phone (281) 668-9739

PARTICIPATED
IN

LANDFILL
OPERATIONS

MR CHANCE SEELY

Phone (281) 835-6142

Other Staff Member(s):

Role

Name

Investigator
QA Reviewer
Supervisor

SAMANTHA STANLEY
WILLIAM JORN
LETASHA MILLER

Associated Check List

Checklist Name

Unit Name

EQUIPMENT MONITORING AND SAMPLING -
REVISED 3/2015

Sitewide

AIR FOCUSED INVESTIGATION - ODOR SURVEY

Sitewide

AIR GENERIC INVESTIGATION (10 ITEMS)

Sitewide

INFORMATION COPY
FOR R12 FILE ROOM

BLUE RIDGE LANDFILL - FRESNO

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Investigation Comments:

INTRODUCTION/ INVESTIGATION SUMMARY

Introduction

On October 12, 2018, Ms. Danielle Woods and Ms. Samantha Stanley of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted a focused odor survey investigation (Investigation Typecode FI AIR ODOR) in the city of Pearland, and in Fort Bend, Brazoria, and Harris counties in the west Pearland area. The purpose of this investigation was to conduct odor surveys to determine if odors were present in the area and identify potential sources.

Investigation Narrative

The investigation took place on October 12, 2018. 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: No cloud cover; Temperature: 65.5° Fahrenheit; Wind Direction: north northeast (NNE); Wind Speed: Approximately 7.5 miles per hour; Precipitation: 0.0 inches; Source of Meteorological Conditions: CAMS 84 Manvel Croix Park C84.

The investigators arrived at Evergreen Street (N 29.54686, W -95.45171) at 5:55 a.m. to conduct a thirty-minute odor survey and document odor detections of the following facility: Blueridge Landfill. Winds were from the north northeast at approximately seven and a half (7.5) mph. Odors were detected during this survey. At approximately 5:56 a.m., odor detections were logged during the survey (see Odor Logs in Attachment 2) and monitoring was conducted with the Jerome 605 and the toxic vapor analyzer (TVA 1000B). During the odor survey, unpleasant odors of garbage were detected for an intermittent period over approximately 15-minutes. The intensity during the duration had a range from very light to light. The H₂S and vapor concentrations did not appear to be at unsafe levels. A nuisance condition did not appear to be present at this location, therefore the investigators proceeded with the odor survey. The investigators left the area at approximately 6:26 a.m.

The investigators arrived at Nail Road (N 29.55389, W -95.45908) at approximately 6:39 a.m. to conduct a thirty-minute odor survey and document odor detections of the following facility: Blueridge Landfill. Winds were from the north northeast at approximately eight (8) mph. Odors were detected during this survey. Beginning at approximately 6:41 a.m., odor detections were logged during the survey (see Odor Logs in Attachment 2). During the odor survey, unpleasant odors of garbage were detected for an approximately 6 to 9-minute, intermittently. The intensity during the duration ranged from very light to light, with one minute having an intensity of moderate. No H₂S or TVA monitoring was conducted. A nuisance condition did not appear to be present at this location, therefore the investigators proceeded with the odor survey. The investigators left the area at approximately 7:10 a.m.

The investigators arrived at the intersection of Hooper Road and Fruge Road (N 29.58362, W -95.40459) at approximately 7:40 a.m. to conduct a fifteen-minute odor survey and document odor detections of the following facilities: Syntech Chemicals Inc. (Syntech) and Brenntag Southwest LLC (Brenntag). Winds were from the north northeast at approximately eight (8) mph. No odors were detected during this survey in the investigation. No H₂S or TVA monitoring was conducted. The investigators left the area at approximately 7:58 a.m.

The investigators arrived at the intersection of Kingsley Drive and McHard Road (N 29.58055, W -95.41698) at approximately 8:07 a.m. to conduct a fifteen-minute odor survey and document odor detections of the following facility: Reflection Bay Waste Water Treatment Plant. Winds were from the north northeast at approximately ten (10) mph. No odors were detected during this survey in the investigation. No H₂S or TVA monitoring was conducted. The investigators left the area at approximately 8:25 a.m.

The investigators arrived at the cul-de-sac on Ridgemont Place (N 29.58667, W -95.46910) at approximately 8:53 a.m. to conduct a fifteen-minute odor survey and document odor detections of the following facility: Akzo Nobel. Winds were from the north northeast at approximately nine (9) mph. No odors were detected during this survey in the investigation. No H₂S or TVA monitoring was conducted. The investigators left the area at approximately 9:10 a.m.

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The investigators arrived at Bluebonnet Drive (N 29.58808, W -95.44583) at approximately 9:18 a.m. to conduct a twenty-minute odor survey and document odor detections of the following facility: Lone Star Landfill. Winds were from the north northeast at approximately nine (9) mph. At approximately 9:20 a.m., odor detections were logged during the survey (see Odor Logs in Attachment 2). During the odor survey, unpleasant odors of garbage were detected for an approximately 2 to 5-minute, intermittently. The intensity during the duration had a range from very light to light. No H₂S or TVA monitoring was conducted. A nuisance condition did not appear to be present at this location, therefore the investigators proceeded with the odor survey. The investigators left the area at approximately 9:40 a.m.

The investigators arrived at Windward Bay Drive (N 29.555942, W -95.43325) at approximately 10:00 a.m. to conduct a fifteen-minute odor survey and document odor detections of the following facilities: Mercaptan Station and Blueridge Landfill. Winds were from the north northeast at approximately seven (7) mph. No odors were detected during this survey in the investigation. No H₂S or TVA monitoring was conducted. The investigators left the area at approximately 10:25 a.m.

The investigators arrived at Autumn Falls Drive (N 29.56070, W -95.42571) at approximately 10:30 a.m. to conduct a fifteen-minute odor survey and document odor detections of the following facility: Biscayne Bay Lift Station. Winds were from the north northeast at approximately seven (7) mph. No odors were detected during this survey in the investigation. No H₂S or TVA monitoring was conducted. The investigators left the area at approximately 10:50 a.m.

At approximately 12:00 p.m., the investigators arrived at the Blueridge Landfill and were greeted by Mr. Chance Seely, Landfill Operations, and Mr. Mark Meadows, Division Manager. After a brief introduction, Mr. Meadows stated that there was nothing out of the ordinary that may have been causing offsite odors. He indicated the mister and vapor odor control systems were working and they operate during the hours of 4 a.m. to 5 p.m. He also informed the investigators that although there has been approximately 12.9 inches of rain in the area, there was no erosion control failures at the site. Mr. Meadows stated that an extension had been submitted to TCEQ approximately one month ago to conduct repairs to the erosion closure caused by the rain. Additionally, Mr. Meadows provided copies of the landfill cover logs for the September and October 2018. The records indicate that 500 cubic yards of soil was used to cover sections of the Class I phase of the landfill at a depth of 6 inches and 750 cubic yards of soil was used to cover sections of the municipal solid waste phase of the landfill at a depth of 6 inches (See Attachment 3).

The investigators conducted an audible, visual, and olfactory (AVO) survey and monitoring analysis of the working face of the landfill at approximately 12:29 p.m. Mr. Meadows told the investigators that the working face was currently in its second phase and that the initial work to install gas wells would begin on Monday, October 15, 2018. The investigators did not observe any piles of soil used as landfill cover in the area at the working face. There was a distinct odor of garbage due to the active unloading of garbage trucks.

The investigator, Ms. Danielle Woods, checked the primary and secondary flare with the Optical Gas Imaging Camera (OGIC) and the flares were operating, and no excess emissions were detected. Mr. Meadows stated there had been no flare outages within the last twenty-four hours and that a third flare was being installed on the site.

The investigators left the facility at approximately 1:00 p.m.

Exit Interview

As no violations were alleged and no records requested, an exit interview was not conducted.

GENERAL FACILITY AND PROCESS INFORMATION

Process Description

Blue Ridge Landfill is a municipal solid waste landfill. More detailed process descriptions can be found in the TCEQ Central File Room.

BACKGROUND

Agreed Orders Court Orders, and Other Compliance Agreements

BLUE RIDGE LANDFILL - FRESNO

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Not Applicable

Prior Enforcement Issues

Not Applicable

Complaints

Based on a review of CCEDS and regional office files, 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 investigations were being conducted by the Region 12 Office.

ADDITIONAL INFORMATION

Conclusions, Recommendations, and Current Enforcement Actions

The investigators documented an intermittent landfill garbage/waste odor from 5:57 a.m. to 6:26 a.m.; 6:41 a.m. to 7:00 a.m.; and 9:20 a.m. to 9:24 a.m. The investigators referenced the TCEQ Frequency, Intensity, Duration and Offensiveness (FIDO) chart which categorizes the landfill garbage/waste odor to be offensive. The intensity of the odor was documented as very light to light. In order to constitute a nuisance, an offensive odor has to last four hours with a very strong intensity as a single occurrence. Therefore, no significant odors were detected throughout the investigation using a weighted average.

Additional Issues

No additional issues were noted during this investigation.

REPORT ATTACHMENTS

1. Odor Survey Location Map
2. Investigators' Odor Logs
3. Records Provided by the Regulated Entity

No Violations Associated to this Investigation

Signed 
Environmental Investigator

Date 10/29/2015

Signed 
Supervisor

Date 10/29/18

BLUE RIDGE LANDFILL - FRESNO

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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) : _____

Attachment #1

Odor Survey Location Map

CN: 602295370

RN: 104046255

Investigation Number: 1523460

Investigation Date: October 11, 2018

Investigator: Danielle Woods

No. of Pages: 1



Google Earth

Investigation Type: FLAIR/DOK

Air Account NO: RN 104040255

Attachment: 1

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Attachment #2

Investigators' Odor Logs

CN: 602295370

RN: 104046255

Investigation Number: 1523460

Investigation Date: October 11, 2018

Investigator: Danielle Woods

No. of Pages: 33

Evergreen St.
N 29.54086

Supplemental Investigator's Odor Intensity Time Log

W 095.45171

Date of Investigation: 10/10/18

Start Time: 5:56 a.m.

NE Wind @
~6 mph
65°F

Minutes	Odor Intensity VL, L, M, S, VS
1 min 57	VL
2 58	VL
3 59	VL
4 6:00	L
5 :01	L
6 02	L
7 03	VL
8 04	VL
9 05	No odor
10 06	No odor
11 07	No odor
12 08	No odor
13 09	No odor
14 10	No odor
15 11	No odor
16 12	VL
17 13	VL
18 14	VL
19 15	No odor
20 16	No odor
21 17	No odor
22 18	L
23 19	No odor
24 20	VL
25 21	VL
26 22	No odor
27 23	VL
28 24	VL
29 25	No odor
30 26	VL

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
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41	
42	
43	
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Offensiveness: Highly _____ Offensive _____ Unpleasant ☒ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FIA/RODOR

Air Account NO: RN104046255

Attachment: 2

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIAIRODOR
 Air Account NO: RN104046255
 Attachment: 2
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Evergreen St.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 5:50 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	L
3	VL
4	L
5	L
6	M
7	VL
8	no odor
9	no odor
10	no odor
11	VL
12	VL
13	no odor
14	no odor
15	no odor
16	no VL
17	no odor
18	no odor
19	no odor
20	no odor
21	VL
22	L
23	L
24	VL
25	VL
26	VL
27	no odor
28	no odor
29	no odor
30	no odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
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41	
42	
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Offensiveness: Highly _____ Offensive _____ Unpleasant ✓ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODOR
 Air Account NO: RN104046255
 Attachment: 2
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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIA/RODOR
 Air Account NO: RN104046255
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Supplemental Investigator's Odor Intensity Time Log

Nail Rd. W. d
N. 29.55389
W 095.45908
65°F

Date of Investigation: 10/11/18

Start Time: 6:40 a.m.

Minutes	Odor Intensity VL, L, M, S, VS
1 min 41	M
2 42	L
3 43	L
4 44	L
5 45	VL
6 46	No odor
7 47	VL
8 48	No odor
9 49	No odor
10 50	No odor
11 51	No odor
12 52	No odor
13 53	No odor
14 54	No odor
15 55	No odor
16 56	No odor
17 57	No odor
18 58	No odor
19 59	No odor
20 7:00	No odor
21 01	No odor
22 02	No odor
23 03	No odor
24 04	No odor
25 05	No odor
26 06	No odor
27 07	No odor
28 08	No odor
29 09	No odor
30 10	No odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
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39	
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41	
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Offensiveness: Highly _____ Offensive _____ Unpleasant ☒ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FIAI RODOR

Air Account NO: RN104046255

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIAIRCDOR
 Air Account NO: RN104046255
 Attachment: 2
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Nail Rd.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 640 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min 41	no odor
2 42	no odor
3 43	no odor
4 44	L
5 45	no odor
6 46	L
7 47	no odor
8 48	VL
9 49	VL
10 50	no odor
11 51	no odor
12 52	no odor
13 53	no odor
14 54	no odor
15 55	VL
16 56	VL
17 57	VL
18 58	VL
19 59	no odor
20 60	VL
21 1	no odor
22 2	no odor
23 3	no odor
24 4	no odor
25 5	no odor
26 6	no odor
27 7	no odor
28 8	no odor
29 9	no odor
30 10	no odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
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41	
42	
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Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant ✓

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: EIAIR ODOR

Air Account NO: RN 104046255

Attachment: 2

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIA/RODOR

Air Account NO: RN104046255

Attachment: 2

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Frage RQ. Hooper RQ
 N 29.58362
 W 095.40459

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/2018 Start Time: 7:42 am

Wind:
 NE @ 6 mph
 65°F

Minutes	Odor Intensity VL, L, M, S, VS
1 min 43	No odor
2 44	No odor
3 45	No odor
4 46	No odor
5 47	No odor
6 48	No odor
7 49	No odor
8 50	No odor
9 51	No odor
10 52	No odor
11 53	No odor
12 54	No odor
13 55	No odor
14 56	No odor
15 57	No odor
16 58	
17 59	
18 8:00	
19 01	
20 02	
21 03	
22 04	
23 05	
24 06	
25 07	
26 08	
27 09	
28 10	
29 11	
30 12	

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	
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55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FIARODOR
 Air Account NO: RN104046255
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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIA/RODOR
 Air Account NO: RN104046255
 Attachment: 2
 Page: 10 of 33

Final Report

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 7:43 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min 44	no odor
2 45	no odor
3 46	no odor
4 47	no odor
5 48	no odor
6 49	no odor
7 50	no odor
8 51	no odor
9 52	no odor
10 53	no odor
11 54	no odor
12 55	no odor
13 56	no odor
14 57	no odor
15 58	no odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

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	
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51	
52	
53	
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56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FIA/RODOR

Air Account NO: RN104046255

Attachment: 2

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Blank

Supplemental Investigator's Odor Intensity Time Log

Kingsley Dr. r McHard Rd
Wind: NE
@ 4mph
67°F
N 29.58055
W 095.41698

Date of Investigation: 10/11/18 Start Time: 8:09

Minutes	Odor Intensity VL, L, M, S, VS
1 min 10	No odor
2 11	No odor
3 12	No odor
4 13	No odor
5 14	No odor
6 15	No odor
7 16	No odor
8 17	No odor
9 18	No odor
10 19	No odor
11 20	No odor
12 21	No odor
13 22	No odor
14 23	No odor
15 24	No odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

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	
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53	
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55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODO2
Air Account NO: RN104046255
Attachment: 2
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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FI AIR ODOR

Air Account NO: RN 104046255

Attachment: 2

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Kingsly Dr.

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11 Start Time: 8:10 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
2	no odor
3	no odor
4	no odor
5	no odor
6	no odor
7	no odor
8	no odor
9	no odor
10	no odor
11	no odor
12	no odor
13	no odor
14	no odor
15	no odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
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55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FI/AIROD012

Air Account NO: RN104046255

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIAIR ODO

Air Account NO: RN104046255

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Supplemental Investigator's Odor Intensity Time Log

Ridgemoor Place @
S. Post Oak
N. 29. 58667
W 095. 46910
Wind:
NE 4mph
68°F

Date of Investigation: 10/11/18 Start Time: 8:54 a.m.

Minutes	Odor Intensity VL, L, M, S, VS
1 min 55	No odor
2 56	No odor
3 57	No odor
4 58	No odor
5 59	No odor
6 9:00	No odor
7 01	No odor
8 02	No odor
9 03	No odor
10 04	No odor
11 05	No odor
12 06	No odor
13 07	No odor
14 08	No odor
15 09	No odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

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	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FIA/RODOR

Air Account NO: RN104046255

Attachment: 2

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FLAIR ODOR
 Air Account NO: RN104046255
 Attachment: 2
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Ridgmont Place

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 854AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min <u>65</u>	<u>no odor</u>
2 <u>50</u>	<u>no odor</u>
3 <u>57</u>	<u>no odor</u>
4 <u>58</u>	<u>no odor</u>
5 <u>59</u>	<u>no odor</u>
6 <u>60</u>	<u>no odor</u>
7 <u>01</u>	<u>no odor</u>
8 <u>02</u>	<u>no odor</u>
9 <u>03</u>	<u>no odor</u>
10 <u>04</u>	<u>no odor</u>
11 <u>05</u>	<u>no odor</u>
12 <u>06</u>	<u>no odor</u>
13 <u>07</u>	<u>no odor</u>
14 <u>08</u>	<u>no odor</u>
15 <u>09</u>	<u>no odor</u>
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

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	
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56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODO2

Air Account NO: RN104046255

Attachment: 2

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

Chemical	Description	Chemical	Description
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIAIRODOR

Air Account NO: RN104046255

Attachment: 2

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Bluebonnet Dr.
N 29.588
W 095.44583

Supplemental Investigator's Odor Intensity Time Log

Wind: NE
~ 4 mph
68°F

Date of Investigation: 10/11/18 Start Time: 9:19 am

Minutes	Odor Intensity VL, L, M, S, VS
1 min <u>20</u>	<u>VL</u>
2 <u>21</u>	<u>L</u>
3 <u>22</u>	<u>No odor</u>
4 <u>23</u>	<u>No odor</u>
5 <u>24</u>	<u>No odor</u>
6 <u>25</u>	<u>No odor</u>
7 <u>26</u>	<u>No odor</u>
8 <u>27</u>	<u>No odor</u>
9 <u>28</u>	<u>No odor</u>
10 <u>29</u>	<u>No odor</u>
11 <u>30</u>	<u>No odor</u>
12 <u>31</u>	<u>No odor</u>
13 <u>32</u>	<u>No odor</u>
14 <u>33</u>	<u>No odor</u>
15 <u>34</u>	<u>No odor</u>
16 <u>35</u>	<u>No odor</u>
17 <u>36</u>	<u>No odor</u>
18 <u>37</u>	<u>No odor</u>
19 <u>38</u>	<u>No odor</u>
20 <u>39</u>	<u>No odor</u>
21 <u>40</u>	
22 <u>41</u>	
23 <u>42</u>	
24 <u>43</u>	
25 <u>44</u>	
26 <u>45</u>	
27 <u>46</u>	
28 <u>47</u>	
29 <u>48</u>	
30 <u>49</u>	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
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39	
40	
41	
42	
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Offensiveness: Highly _____ Offensive _____ Unpleasant ✓ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODOR
Air Account NO: RN104046255
Attachment: 2
Page: 20 of 33

Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

Chemical	Description	Chemical	Description
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIA/RODOR

Air Account NO: RN104046255

Attachment: 2

Page: 21 of 33

Blue bonnet Dr

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 9:19 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min <u>20</u>	<u>L</u>
2 <u>21</u>	<u>L</u>
3 <u>22</u>	<u>VL</u>
4 <u>23</u>	<u>VL</u>
5 <u>24</u>	<u>L</u>
6 <u>25</u>	<u>no odor</u>
7 <u>26</u>	<u>no odor</u>
8 <u>27</u>	<u>no odor</u>
9 <u>28</u>	<u>no odor</u>
10 <u>29</u>	<u>no odor</u>
11 <u>30</u>	<u>no odor</u>
12 <u>31</u>	<u>no odor</u>
13 <u>32</u>	<u>no odor</u>
14 <u>33</u>	<u>no odor</u>
15 <u>34</u>	<u>no odor</u>
16 <u>35</u>	<u>no odor</u>
17 <u>36</u>	<u>no odor</u>
18 <u>37</u>	<u>no odor</u>
19 <u>38</u>	<u>no odor</u>
20 <u>39</u>	<u>no odor</u>
21 <u>40</u>	
22 <u>41</u>	
23 <u>42</u>	
24 <u>43</u>	
25 <u>44</u>	
26 <u>45</u>	
27 <u>46</u>	
28 <u>47</u>	
29 <u>48</u>	
30 <u>49</u>	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
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60	

Offensiveness: Highly _____ Offensive _____ Unpleasant X Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODOR
 Air Account NO: RN104046255
 Attachment: 2
 Page: 22 of 33

Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FLAIR/ODOR

Air Account NO: RN 104046255

Attachment: 2

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Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 10:10 a.m.

Winkwall Bay Dr
N 29. ... 942
W 095.43325
NE Wind @
~ 4 mph
68°F
74°

Minutes	Odor Intensity VL, L, M, S, VS
1 min 11	No odor
2 12	No odor
3 13	No odor
4 14	No odor
5 15	No odor
6 16	No odor
7 17	No odor
8 18	No odor
9 19	No odor
10 20	No odor
11 21	No odor
12 22	No odor
13 23	No odor
14 24	No odor
15 25	No odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
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Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FIAIRODOR
Air Account NO: RN104046255
Attachment: 2
Page: 24 of 33

Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FLAIR ODO

Air Account NO: RN104046255

Attachment: 2

Page: 25 of 33

Windward Bay Dr

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 10:10AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min 11	no odor
2 12	no odor
3 13	no odor
4 14	no odor
5 15	no odor
6 16	no odor
7 17	no odor
8 18	no odor
9 19	no odor
10 20	no odor
11 21	no odor
12 22	no odor
13 23	no odor
14 24	no odor
15 25	no odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
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58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODOR

Air Account NO: RN104046255

Attachment: 2

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Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FIAIR ODOR

Air Account NO: RN104046255

Attachment: 2

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Autumn to " ? @
Misting rails

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 10:33 a.m

N 29.56070
W 095.42571

NE Wind
~4 mph
75°F

Minutes	Odor Intensity VL, L, M, S, VS
1 min 34	No odor
2 35	No odor
3 36	No odor
4 37	No odor
5 38	No odor
6 39	No odor
7 40	No odor
8 41	No odor
9 42	No odor
10 43	No odor
11 44	No odor
12 45	No odor
13 46	No odor
14 47	No odor
15 48	No odor
16	
17	
18	
19	
20	
21	
22	
23	
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25	
26	
27	
28	
29	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
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41	
42	
43	
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Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODOR

Air Account NO: RN104046255

Attachment: 2

Page: 28 of 33

Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: FLAIRBOR

Air Account NO: RN104046255

Attachment: 2

Page: 29 of 33

Atur Fall

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10/11/18 Start Time: 10:33 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min 34	no odor
2 35	no odor
3 36	no odor
4 37	no odor
5 38	no odor
6 39	no odor
7 40	no odor
8 41	no odor
9 42	no odor
10 43	no odor
11 44	no odor
12 45	no odor
13 46	no odor
14 47	no odor
15 48	no odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
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41	
42	
43	
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60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Investigation Type: FLAIR ODO

Air Account NO: RN104046255

2
30 of 33

Chemical Odor Description Examples

These descriptions should only be used as a guide, based on the investigator's experience and training.

<u>Chemical</u>	<u>Description</u>	<u>Chemical</u>	<u>Description</u>
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acetone	chemical, sweet, pungent	Hydrogen Sulfide	boiled eggs, rotten eggs
Acrolein	burnt, pungent, sweet	Methanol	sweet, fruity
Acrylonitrile	onion/garlic-pungency, sweet, acrylic plastic	Methyl Ethyl Ketone	sweet
Allyl Chloride	garlic-onion pungency, sweet, green	Methyl Isobutyl Ketone	sweet, floral, fruity
Amine, Dimethyl	fishy, dirty clothes	Methyl Mercaptan	cabbage, sulfidy, pungent, natural gas
Amine, Monomethyl	fishy, pungent	Methyl Methacrylate	pungent, sulfidy, plastic
Amine, Trimethyl	fishy, pungent	Monochlorobenzene	chlorinated, moth balls, benzene-like
Ammonia	barn-like, pungent, cat litter-box	Nitrobenzene	sweet, shoe polish, pungent
Aniline	sweet, oily, solvent, pungent	p-Cresol	antiseptic, tar-like, pungent
Benzene	sweet, solvent	p-Xylene	sweet, oily, anethol, moth balls
Benzyl Chloride	sweet, solvent	Perchloroethylene	sweet, chlorinated
Benzyl Sulfide	sweet, cedary, sulfidy	Phenol	medicinal, sweet
Bromine	sweet, bleach	Phosgene	sweet, hay-like
Butyric Acid	cheesy, sour	Phosphine	oniony, mustard
Carbon Disulfide	vegetable sulfide, leaves a taste	Pyridine	burnt, gauze-like, pungent, diamine
Carbon Tetrachloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticity
Chlorine	pungent, sweet, bleach	Sulfur Dichloride	sulfidy, putrid (leaves a metallic taste)
Dimethylacetamide	amine, burnt, oily, organic decay	Sulfur Dioxide	Heavy, oppressive (more taste and feel than odor)
Dimethylformamide	fishy, sweet, floral, pungent, solvent	Toluene (From Petroleum)	moth balls, sweet, rubbery, anethol
Dimethyl Sulfide	cooked vegetable	Toluene (From Coke)	heavy, sweet, floral, pungent, solventy
Ethanol	sweet, floral	Toluene diisocyanate	medicated bandage, sweet, fruity, pungent
Ethyl Acrylate	sweet, hot plastic, earthy	Trichloroethylene	sweet, solventy
Ethyl Mercaptan	earthy, sulfidy		

Investigation Type: EIAIR Odor

Air Account NO: RN104046355

Attachment: 2

Page: 31 of 33

Investigator FIDO Log

1. Characterize the odor to determine which Offensiveness table to use (Not Unpleasant to Highly Offensive)
2. Assess the Intensity of odor (Very Light to Very Strong), for variable intensities use Supplemental Investigator's Odor Intensity Time Log.
3. Determine the total Duration of the odor(s) (1 minute to 24 hours)
4. Evaluate the Frequency of odor occurrence (Single Occurrence to Daily)
5. Identify the block on the chart that corresponds to the information from Steps 1-4 and determine if a nuisance condition exists.

Date	Time(s)	How long did the odor occur?	Was the odor intermittent? (Y/N)	Weather Conditions			Odor Characteristic				Odor Intensity					Effects/Comments/Concerns
				Wind direction	Rain (Y/N)	Temperature (°F)	Not Unpleasant	Unpleasant	Offensive	Highly Offensive	Very Light	Light	Moderate	Strong	Very Strong	
10.11.18	5:55am - 6:20am	17 mins	Y	NE	N	65°	-	✓	-	-	-	✓	✓	-	-	There were periods of faint smells of garbage. NA-D-0.63 ppm. Duration 0.00 ppm
10.11.18	6:40am - 7:10am	10 mins	Y	NE	N	65°	-	✓	-	-	-	✓	✓	-	-	There were periods of faint smells of garbage. NA-D-0.63 ppm. Duration 0.00 ppm
10.11.18	7:40am - 7:51am	-	-	NE	N	65°	-	-	-	-	-	-	-	-	-	No odors
10.11.18	8:09am - 8:24am	-	-	NE	N	67°	-	-	-	-	-	-	-	-	-	No odors
10.11.18	8:54am - 9:09am	-	-	NE	N	68°	-	-	-	-	-	-	-	-	-	No odors
10.11.18	9:19am - 9:44am	2 mins	Y	NE	N	68°	-	✓	-	-	-	✓	✓	-	-	There were periods of faint smells of garbage. No instrument readings.
10.11.18	10:10am - 10:25am	-	-	NE	N	70°	-	-	-	-	-	-	-	-	-	No odors
10.11.18	10:33am - 10:48am	-	-	NE	N	75°	-	-	-	-	-	-	-	-	-	No odors

Blank

Investigator FIDO Log

1. Characterize the odor to determine which Offensiveness table to use (Not Unpleasant to Highly Offensive)
2. Assess the Intensity of odor (Very Light to Very Strong), for variable intensities use Supplemental Investigator's Odor Intensity Time Log.
3. Determine the total Duration of the odor(s) (1 minute to 24 hours)
4. Evaluate the Frequency of odor occurrence (Single Occurrence to Daily)
5. Identify the block on the chart that corresponds to the information from Steps 1-4 and determine if a nuisance condition exists.

Date	Time(s)	How long did the odor occur?	Was the odor intermittent? (Y/N)	Weather Conditions			Odor Characteristic				Odor Intensity					Effects/Comments/Concerns
				Wind direction	Rain (Y/N)	Temperature (°F)	Not Unpleasant	Unpleasant	Offensive	Highly Offensive	Very Light	Light	Moderate	Strong	Very Strong	
10/11/18	5:30am	15min	Y	NE	N	105°F		X				X	X	X		trash smell
10/11/18	7:00am	9min	Y	NE	N	105°F	X						X			chemical smell
10/11/18	7:45am	—	—	NE	N	105°F	X									—
10/11/18	8:00am	—	—	NE	N	107°F	X									—
10/11/18	8:21am	—	—	NE	N	108°F	X									—
10/11/18	9:40am	5min	Y	NE	N	108°F		X								trash smell
10/11/18	10:20am	—	—	NE	N	74°F	X									—
10/11/18	10:48am	—	—	NE	N		X									—

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Attachment #3

Records Provided by the Regulated Entity

CN: 602295370

RN: 104046255

Investigation Number: 1523460

Investigation Date: October 11, 2018

Investigator: Danielle Woods

No. of Pages: 8

COVER APPLICATION LOG CLASS I NON HAZARDOUS

Month / Year:

[illegible]

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On Inspected areas with daily cover or alternate daily cover each day the site is in open
Erosion of daily cover must be corrected within 24 hours after the area is access
Corrective Action: R = Replacing cover material; G = Grading; M = Compacting;
SOP Section 7.4 requires a soil inoculate to be maintained within 1,000 ft of the
Signature certifies work accomplished as stated in the Cover Application Log

9 Air Account NO. 3

Attachment: RN10404-6255
Page: 1 of 8

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Investigation Type: FLAIR/DOR

Air Account NO: RN104046255

Attachment: 3

Page: 2 of 8

7/7/2017

COVER APPLICATION LOG

Daily Cover		Approved Alternative Daily Cover				Erosion		Inspection		Data		Soil		Rain		Named Site Cover				Final Cover		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection		Erosion		Data		Inspection	
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AMT = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area is back of form

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for investigation type: FIARodbor

Corrective Action: E = Reinstall cover material, G = Grading, M = Compacting, S = Sealing

SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material. All accounts NO: RN104046255

Attachment: 3

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COVER APPLICATION LOG

Daily Cover		Approved Alternative Daily Cover		Elevation	Inspection Date of Daily Cover	Erosion or Leachate Detected	Date Erosion or Leachate Connected	Corrective Action	Soil Stockpile Required (yd ³)	Rain (inches)	Rain (inches) ≥ 0.5"	Intermediate Cover		Final Cover		Inspection Date of Intermediate & Final Cover	Erosion or Leachate Detected	Date Erosion Connected	Corrective Action	Final Cover Certification Report Reference	Supervisor Signature	
8' Soil	Method ¹	Grid Area	Method ²	Grid Area	MSL	Verified	Yes				Yes	AMT ³	Grid Area	Method ⁴	Grid Area	Method ⁵	Verified	Yes				
1	750	6" B	8	—	—	—	—	—	—	14	✓						✓					
2	750	6" B	8	—	—	—	—	—	—	0.2												
3	750	6" B	8	—	—	—	—	—	—	0.1												
4	750	6" B	8	—	—	—	—	—	—													
5	750	6" B	8	—	—	—	—	—	—													
6	500	6" B	8	—	—	—	—	—	—													
7	750	6" B	8	—	—	—	—	—	—	0.2												
8	750	6" B	8	—	—	—	—	—	—													
9	750	6" B	8	—	—	—	—	—	—													
10	750	6" B	8	—	—	—	—	—	—													
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AMT = Amount of cover (soil) in yd³ or alternative daily cover in bags or tarp area
T = Thickness in inches
Method¹ = A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On
Inspect areas with daily cover or alternative daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section A.18. Additional documentation may be required for areas with intermediate or final cover not corrected within 5 days. Attach documentation stating reasons for investigation. Type: F1A1R0DOR
Erosion of daily cover must be corrected within 24 hours after the site is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for investigation. Type: F1A1R0DOR
Corrective Action: R = Replacing cover material, G = Grading, M = Compacting, S = Seeding
SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil stockpile is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material Area. NO: RN104040255
Signature certifies work accomplished as stated in the Cover Application Log

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Investigation Type: FIARDDOR
Air Account NO: RN1041046255
Attachment: 3
Page: 6 of 8

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On
Inspected areas with daily cover or alternate daily cover each day the site is in open
Erosion of daily cover must be corrected within 24 hours after the area is access
Corrective Action: R = Restoring cover material, G = Grading, M = Compacting
SCP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the
Signature certifies work accomplished as stated in the Cover Application Log.

Investigation type: FIARDDOR
 Account NO: RN104046255

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Investigation Type: EIAR/DOR

Account NO: RN104046255

Attachment: 2

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