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

Incident Numbers

Investigator:

DANIELLE WOODS

Site Classification

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

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

LANDFILL

OPERATIONS

Name

Phone

REGULATED

ENTITY

DIVISION MANGER

MR MARK MEADOWS

Phone

(281) 668-9739

CONTACT

PARTICIPATED

MR CHANCE SEELY

Phone

(281) 835-6142

INFORMATION COPY

FOR R12 FILE ROOM

Other Staff Member(s):

Role

IN

Name

Investigator

SAMANTHA STANLEY WILLIAM JORN

QA Reviewer Supervisor

LETASHA MILLER

Associated Check List

Checklist Name

Unit Name

EQUIPMENT MONITORING AND SAMPLING -

REVISED 3/2015

Sitewide

AIR FOCUSED INVESTIGATON - ODOR SURVEY

Sitewide

Sitewide

AIR GENERIC INVESTIGATION (10 ITEMS)

BLUE RIDGE LANDFILL - FRESNO 10/11/2018 Inv. # - 1523460 Page 2 of 5

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 northcast 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.

BLUE RIDGE LANDFILL - FRESNO

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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

Signed

Date 10 29/18

BLUE RIDGE LANDFILL - FRESNO

10/11/2018 Inv. # - 1523460

Page 5 of 5	
Attachments: (in order of final report sul	omittal)
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	
Notice of Registration	

Attachment #1 Odor Survey Location Map

CN: 602295370

RN: 104046255

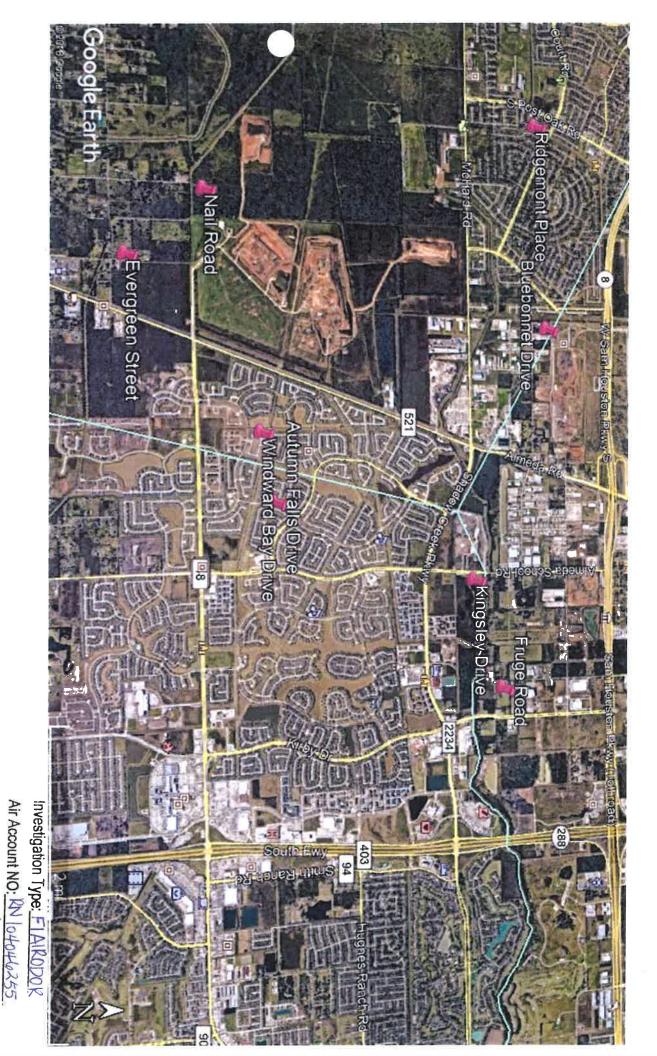
Investigation Number: 1523460

Investigation Date: October 11, 2018

Investigator: Danielle Woods

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Attachment:

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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

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Evergreen St. N 29.54086

Supplemental Investigator's Odor Intensity Time Log NE WIND @ 1 NE mph 650F

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art Time:	5:56 am.
Minutes	Odor Intensity VL, L, M, S, VS
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Minutes	Odor Intensity VL, L, M, S,VS
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3 59	VL
4 6:00	L
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6 02	L
7 03	VL
8 04	VL
9 05	Noodor
10 06	No odor
11 67	Noodor
12 08	No odor
13 09	No odor
14 10	No odor
15 \(No odor
16 2	VL
17 13	VL
18 4	VL
19 15	Noodor
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21	No odor
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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
Λcrolein	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, plasticy
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		

in vestiga Air Accol	tion T	ype:_ D: 2	FIAI	RODO	<u>)r</u> <u>)s</u> 5
Attachme			2		
Page:			33	-	

Evergree n St.

Supplemental Investigator's Odor Intensity Time Log

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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, plasticy
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: R	N104046255
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Page: 4 of	33

Supplemental Investigator's Odor Intensity Time Log

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25 05	Noodor
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27 0	Noodor
28 0	No odor
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10 Min			*			
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						Via A acquist NO:

Air Account NO:_	KN104	040255
Attachment:	2	
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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, plasticy
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			
Page: 16	of 33			

Nail Rd.

Supplemental Investigator's Odor Intensity Time Log

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7	47	no odor
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11	51	no oder
12	51	ho ador
13	দ্য	no odor
14	54	ino odov
15	95	VL
16	56	V
17	57	VL
18	50	VL
19	59	no odor
20	60	VL
21	1	no odar
22	1	nooda
23	3	nooder
24	Ч	no odor
25	5	no oder
26	(0	no odor
27	1	no odar
28	0	no odar
29	Ă	no oda
30	10	no odor

Minutes	Odor Intensity VL, L, M, S, VS
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eighted Ave	VS VS	S	M	L	VL	No Odor
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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, plasticy
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		

	e: FIAIRODOR
Air Account NO:	2N104046255
Attachment:	2
Page: 8 o	f 33

Supplemental Investigator's Odor Intensity Time Log
W095.40459

Date of Investigation:	0	11/	20	8	Start Time: _	7:42	am	 Nind:

Minutes	Odor Intensity VL, L, M, S,VS
1 min 43	
2 44	A .
3. 45	No odov
4 46	No odor
5 47	No odor
6 48	1 4 7 7
7 49	
8 50	No odov
9 51	No odor
10 52	No odov
11 53	No odov
12 54	
13 55	
14 56	No odov
15 57	
16 58	
17 59	
18 8:00	
19 01	*
20 02	
21 03	
22 04	
23 05	
24 66	
25 07	1
26 68	2
27 09	
28 0	
29	· · · · · · · · · · · · · · · · · · ·
30 2	

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4

fensivene	ss: Highly	_ Offensive _	Unpl	easant	Not Unpleasan	t
eighted Ave	rage Intensity:	S	M	L	l VL	No Odor
Min						
			**			t
Min	THAY IT SAME					stigation Type:Account NO:

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	Styrenc (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticy
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
Page: 10 0	nf_55_

Fruge hel-

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	10/11/19	Start Time: 7-43AM
Date of investigation.		

Minutes	Odor Intensity VL, L, M, S,VS
1 min 44	no ada
2 45	no oder
3 46	no odar
4 41	noodor
5 48	no ador
6 UCT	no odor
7 50	vo odor
8 9	No odor
9 54	NO OLIV
10 63	no odny
11 AU	no allor
12 -66	no odor
13 50	No Down
14	No oder
15 55	nooder
16	
17	•
18	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
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42	
43	
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Offensiven	ess: Highly	Offensive _	Unp	oleasant	Not Unpleasant _		
Weighted Av	erage Intensity:			- r-	T x x	N. Oden	7
	VS	S	M	L	VL	No Odor	4
1 Min							
10 Min							
1 Hour					investigation	Type: FIAI	RODORC
°Q.				A	Air Account	NO: RN 104	-046259

Air Account	NO: KN 10404625
Attachment	2
Page:	of33

Supplemental Investigator's Odor Intensity Time Log

N 29.58055

Pation: 19 11 18 Start Time: 8'.09 W 095.41198 67°F

Date of Investigation: 10 11 18

Minutes	Odor Intensity VL, L, M, S,VS
ı min 🛭 o	No odor
2	No odoy
3 12	No odor
4 3	No odor
5 14	No odov
6 15	No odor
7 14	No odor
8 17	No odor
9 18	No odor
10 19	No odor
11 20	No odov
12 2	No odov
13 22	No odov
14 23	No odor
15 24	No odor
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
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	VS	S	M	L	VL	No Odor
1 Min						
10 Min	10111	May 10820191				
1 Hour					477.5	stigation Type: El

Offensiveness: Highly_____ Offensive _____ Unpleasant ____ Not Unpleasant ____

Air Account NO: RN104046255 Attachment:____

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, plasticy	
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 Typ	e: FIAIRODOR
Air Account NO:	RN 104046255
Attachment:	2
Dane - 13	of 33

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	10/11	Start Time:	8	0	AM		

	γ
Minutes	Odor Intensity VL, L, M, S,VS
1 min 8	no oder
2 12	no oder
3 13	no oder
4 14	nooder
5 15	no o dor
6 16	no oder
7 17	nooder
8 19	no odor
9 19	no odar
10 20	no oder
11 2/	no odor
12 22	no oder
13 23	no oder
14 2U	no odyr
15 VS	no oder
16	
17	
18	
19	*
20	
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23	
24	
25	
26	
27	
28	
29	<u>. </u>
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Minutes	Odor Intensity VL, L, M, S, VS
31 min	X
32	
33	
34	
35	
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37	
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40	
41	
42	8
43	
44	
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56	
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Offensiven	ess: Highly	Offensive _	Unp	leasant	Not Unpleasant		
Weighted Av	erage Intensity:						
	VS	S	M	L	VL	No Odor	
1 Min							
10 Min							1
1 Hour					avest	dation Type:	FIAIRODOIZ

	ount N	0: <u>R</u>	N1040	146253
^ttachr	nent:_		2	
Page:_	14	_of_	33	_

Chemical	Description	Chemical	Description
Acetaldehyde	Green, sweet, oxidized, alcohol	Formaldehyde	hay/straw-like, sweet, pungent
Acctic 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, plasticy
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	
Air Account NO:	N104046255
Attachment:	Z
Page: 15 of	33

Ridgemon Place

Attachment: 2
Page: 16 of 33

	Supplemental Intigation: 10/11/18	nvestig	ator's O	dor 1	ntensity	Time Log	N. 29
ate of Inves	tigation: 10/11/18		Start Time:	8	:54 a.m.		11
					•		v
Minutes	Odor Intensity VL, L, M, S,VS		Minutes	3	Odor Intensity V	TIMEVS	7
min 55	No odor		31 min		Oddi intensity v	14 12, W1, B, VB	
56	No odor		32				7
57	No odor		33				7
58	No odor		34				
59	No odor		35				1
9:00	No odov		36				7
01	No odor		37				7
02	No odov		38				
0.3	No odov		39				
0 04	No odor		40				
1 05	No odar		41				
2 06	Noodor		42				
3 07	No odor		43				
4 08	No odor		44				
15 09	No odor		45				
6	V 6 50		46				
7			47				
3			48				
9	*		49				
0			50				
1			51			T	_ }
2			52				
3			53				
4			54				
5			55				
6			56		3		
7			.57				_
8			58				_
29		_	59				4
30			60				
fensiveness	: Highly Offensive _	Un	pleasant	N	ot Unpleasa	nt	
ighted Averas			-F	^			
	VS S	M	L		VL	No Odor	
Min Min	516.1					1. 14	4
	THE PARTY OF THE PARTY.				_		_

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, plasticy
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		

nvestigation Type:	FLAIRODOR
Air Account NO:	N104046255
Attachment:	2
Page: of_	_33_

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	10/11/19	Start Time:	854AM	
Date of Investigation.		Otal Cilino		

	(C)
Minutes	Odor Intensity VL, L, M, S,VS
1 min 65	wo oday
2 90	noodor
3 57	no oder
4 96	no ador
5 59	no oder
6 60	no oder
700	we odor
8 01	no oder
9 03	no oder
10 OM	no oder
11 05	no oder
12 OR	no odor
13 07	no odor
14 04	no odar
15 (7/7	no odor
16	
17	
18	
19	5
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	
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Veighted Av	erage Intensity						
	VS	S	M	L	VL	No Odor	
1 Min							
10 Min							
1 Hour	440	117			Inve	stigation Type: -I	+1RODO

Air Account N	0: RN 104046255
Attachment:	2
Page: 18	_of_ 33

C1 : 1		Lor	Law control of the Control
<u>Chemical</u>	Description	Chemical	<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, plasticy
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 Typ	: FIAIRODOR
Air Account NO:_	RN 104046255
Attachment:	2
Page: 19 0	f .33

Bluebonnet Dr. N 29.588 W 095.44583 Supplemental Investigator's Odor Intensity Time Log Wind NE

Date of Investigation:	lolu	18	_ Start Time:	9:19 am	~4mph
					68.

Minutes	Odor Intensity VL, L, M, S,VS
1 min 20	VL
2 21	
3 22	No odor
4 23	No odor
5 24	No odor
6 25	Noodor
7 26	No odor
8 27	No odor
9 28	Noodor
10 29	Noodor
11 30	No odor
12 31	No odor
13 32	No odor
14 33	Noodor
15 34	No odov
16 35	Noodor
17 36	No oder
18 37	No odor
19 38	No odov
20 39	No odov
21 40	754
22 4	
23 42	
24 43	
25 44	
26 45	
27 46	
28 47	11.5
29 48	
30 49	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
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39	
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41	
42	Wil
43	
44	
45	-
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Offensiven	ess: Highly_	Offensi	ve Un]	pleasant <u> </u>	Not Unpleas	ant
Weighted Av	erage Intensity	3 0				
	VS	S	M	L	VL	No Odor
ı Min				(4);		
10 Min		-77				
1 Hour	1 1 1					U V- Times FIA

Air Account NO: RN104046255 Attachment:____

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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 Tetráchloride	sweet, pungent, feeling factor	Styrene (Inhibited)	solventy, rubbery
Chloral	sweet(powdered sugar), fruity	Styrene(Uninhibited)	solventy, rubbery, sweet, plasticy
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 Typ	e: FIAIRODOR
Air Account NO:_	RN104046255
Attachment:	2
Page: 2 of	33

Blue bonnes Or

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	10/11/	18	Start Time:	9:	19A	\mathcal{M}

r	T
Minutes	Odor Intensity VL, L, M, S,VS
1 min 10	L
2 11	L
3 22	VL
4 23	VL
5 74	L.
6 25	nooder
7 760	nooder
8 27	noody
9 28	noodor
10 19	ino odov
11 30	no oder
12 31	no oder
13 3	no oder
14 23	no oder
15 34	no odor
16 75	no odor
17 34	no oder
18 37	no oder
19 %	no odov
20 39	nooder
21 40	
22 41	
23 47	
24 43	
25 44	
26 45	4
27 40	
28 47	
29 48	
30 40	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
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56	P
57	
58	
59 60	

Offensiven	ess: Highly	Offensive	Unpl	easant 🔀	_ Not Unpleas	ant	
Weighted Av	erage Intensity:						
	VS	S	M	L	VL	No Odor	
1 Min							
10 Min						10	NIPODO
1 Hour	\$ 21 101				פערנו	stigation Type:	FIRE
	x 3	E1	18		Air	Account NO: RN	104046

Attachment: 2

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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, plasticy
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 AIRODOR Air Account NO: RN 104046255	
Page: 123 of	33

Windward Bay Dr

_____ Start Time: ______0: 0 a.m. Date of Investigation: 10 11 18

Minutes	Odor Intensity VL, L, M, S,VS
ı min 🔢	No odor
2 12	Noodor
3 3	Noodor
4 14	Noodor
5 15	Noodor
5 16	No oday
7 17	Noodor
3 18	Modor
19	Noodor
10 20	No odor
1 2	Noodor
2 22	No odor
3 23	No odor
4 24	No odor
5 25	No odor
6	140 940
17	
8	9
19	
:0	
21	
2	
23	
24	
5	
6	
7	
8	
9	
0	

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

Offensiveness: Highly	Offensive	Unpleasant	Not Unpleasant

Weighted Average Intensity: No Odor M VL S L 1 Min 10 Min investigation Type: 1 Hour

Air Account NO: RN104046255 Attachment:_

FIAIRODOR

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.

Chemical	Description	Chemical	Description
	Green, sweet, oxidized,		hay/straw-like, sweet,
Acetaldehyde	alcohol	Formaldehyde	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	antiscptic, 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, plasticy
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		

.nvestigation Type: PIA	IRODOR
Air Account NO: RN164	046255
Attachment: 2	
Page: 25 of 33	

Windward Bay Or

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: _	10/11	118	Start Time:	10=10AM	

Minutes	Odor Intensity VL, L, M, S,VS
1 min 1	NO OBOY
2 12	nooder
3 13	in otor
4 14	no oder
5 15	in oder
6 W	no o dor
7 (1	no odor
8 19	no odov
9 0	no oder
10 40	no odor
11 7	no other
12 W	no odor
13 Vŋ	no odur
14 NU	no a dol
15 15	no odo
16	
17	
18	
19	G
20	
21	
22	
23	
24	
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26	
27	1.5
28	
29	Y
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
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40	[B
41	
42	10
43	
44	
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60	

Offensiven	ess: Highly	Offensive _	Unp	leasant	Not Unpleasant	
Weighted Av	erage Intensity:					
	VS	S	M	L	VL	No Odor
1 Min						
10 Min		u nav				
1 Hour		No. of the Contract of the Con			Investigation	Type: FIAIR
	A.				ii taasunt	nkllallall

Air Account NO:_	RN 10404625
Attachment:	2
Prite: 26_0	f_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,
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, plasticy
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: RN 104046255
Attachment: 2
Page: 27 of 33

Autumn to " ? @ Misting rails

Supplemental Investigator's Odor Intensity Time Log
N 24.560 To
N 095.42571

Minutes	Odor Intensity VL, L, M, S,VS
1 min 34 2 35	No odor No odor
0.4	No odov
2-1	No odor
- 100	No odor
5 38	No odov
7. 40	No odor
8 41	No odor
9 42	Noodor
10 43	Noodar
11 144	No odov
12 45	No odor
13 46	No odor
14 47	No odor
15 48	No ador
16	
17	
18	At .
19	*
20	
21	· · · · · · · · · · · · · · · · · · ·
22	-
23	
24	
25	
26	
27	
28	1
29	
30	

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

	ess: Highly	Offensiv	c cm	oleasant	Not Unpleas	
veignteu Av	erage Intensity: VS	S	M	L	VL	No Odor
1 Min						
10 Min	TA T	T BB				
1 Hour					love	stigation Type:

Air Account NO:	RN104046255
Attachment:	2

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Chemical Odor Description Examples

These descriptions should <u>only</u> 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
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, plasticy
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:_	W104046255
Attachment:	2
Page: 129 of	33_

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation:	10/11/	19,	Start Time: Att 10:33 AM	
Dute of III. couganoss.				-

Minutes	Odor Intensity VL, L, M, S,VS
1 min 34	No o dor
2 35	no odor
3 %	no o div
4 37	mo oder
5 3/8	no oder
6 301	no edur
7 40	no oder
8 41	no odov
9 42	no edir
10 43	no odor
11 44	no odan
12 45	un after
13 YU	no odov
14 47	no odoh
15 4%	no odov
16	
17	
18	
19	a .
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	
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41	
42	PO
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44	ti ti
45	
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47	
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Weighted Av	erage Intensity						
	vs	S	M	L	VL	No Odor	
1 Min							
10 Min		7.					6 La 76
1 Hour	-	West -			inve	stigation Type: Fu	AIRODO

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,
Acetic Acid	sour, vinegar	Hydrochloric Acid Gas	pungent, burnt
Acctone	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, plasticy
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		# B @

Investigation Type	: FLAIRODOR
Air Account NO: A	N104046255
Attachment:	2
Page: / 31 of	33

Investigator FIDO Log

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

	F - E				F	_	r	
	0.11.18	81.11.0	0.11.18	6.11.18	0.11.18	 	Date	
	10:33am -10:48a	9:19a	8:09am 8:24am -9:09am	-1:45a	6:40a	5: Sbam -6: 2kem	Time(s)	
	3	Symus	1		5		How long did the occur?	lor
		1 ~	1	1	1	4	Was the odor intern (Y/N)	nittent?
	A &		NE NE	NE	NE	S	Wind direction	
		ZZ	ZZ	4	Z		Rain (Y/N)	Weather Conditions
		2000 No.	670	65		650	Temperature (°F)	her tions
	1,1	Ca 0	, ,	0	0		Not Unpleasant	
			1 ,		· ·		Unpleasant	Odor Characteristic
					1	1	Offensive	naracte
		1	1 1	1	\	١	Highly Offensive	ristic
		1	1 1		<	<	Very Light	
		15		1	<		Light	Odor
	. 1			Ĩ	5	,71 	Moderate Strong	Odor Intensity
			11.		<u>, </u>		Very Strong	sity
					+	- 1		
Investigation Type: FIAIR ODE	No odors	Werz	No odors	dors	* Periods of Paint	34		Effects/Comments/Concerns
PT PE		Ineys.			S			

Attachment: ~

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Investigator FIDO Log

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

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Juni NO: BN 10404625		IA .	And the second s		trash smeet		*A. Sept. Se	ALMOSTICATIVE CONTRACTOR	chemical Smell	traish smell		Effects/Comments/Concerns

nanna

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

Page 1 of 2

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AMT = Amount of cover (soil) in yd or alternate daily cover in bags or tarp area	tarp area																				

Corrective Action: R = Restoring 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 mount of soil required is dependent upon the maximum alticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbesto-Containing Wait PACCOUNT NO.

Attachment: RN 10404 1/255
Page: 1 of 8

T = Thickness in inches

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

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Attachment: 3
Page: 2 of 8

Air Account NO: RN 104046255

Page 1 of 2

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Cover* 4 Data Erosicn Corrected⁵ Corrective Action^c Final Cover Certification Report Reference Month / Year: S. Orkanik 2) THE WAY 1 Supervisor Signature[®]

SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum altripated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. The mount of soil required is dependent upon the maximum altripated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. The mount of soil required is dependent upon the maximum altripated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. The mount of soil required is dependent upon the maximum altripated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. The mount of soil required is dependent upon the maximum altripated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. The mount of soil required is dependent upon the maximum altripated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. The mount of soil required is dependent upon the working face. The mount of soil required is dependent upon the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Material Rependence of the Working face. A 50 yd soil stockpile is required within 100ft of the Working face. A 50 yd soil stockpile is required within 100ft of the Working fa

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Corrective Action: R = Restoring cover material; G = Grading M = Compacting; S = Seeding

T = Thickness in inches

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

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Air Account NO: RN1040411255

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Page: A of 8

REPUBLIC

COVER APPLICATION LOG

Page 1 of 2

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SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The mount of soil required is dependent upon the maximum abcipated size of the working face. A 50 yd soil stockpile is required within 100ft of the Regulated Asbesto-Containing Materia (RACCOMUNITATION). RN 1040446255

Attachment: 3
Prage 5 of 8

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

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Page: 6 of 8

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Blue Ridge Landfill, MSW-1505A

COVER APPLICATION LOG CLASS I NON HAZARDOUS

Page 1 of 2

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