

Event Investigation Report

EIR-2018-035

"AOP-015 Investigation of Odors in 271AP Building"



[Redacted]
Event Investigation Team Lead

10/18/18

Date

[Redacted]
Responsible Manager

10/18/18

Date

Executive Summary

At approximately 0800 on Thursday October 4, 2018 two Nuclear Control Operators (NCOs) detected an onion like odor at the 271AP instrument building. The NCOs were performing bottle issuing and pressure watch activities when the odor was detected. NCO1 texted their supervisor informing them of the odor. At approximately 0803 the NCOs supervisor instructed them to leave the building and contacted the Central Shift Office (CSO). At approximately 0809 a TF-AOP-015 was entered, restricting access to the building. The NCO's stood outside the 271AP building and waited for the Shift Office Manager (SOM) to escort them to the CSO where they filled out odor response cards. Neither NCO reported having any symptoms and both declined medical evaluation. At approximately 0820 Industrial Hygiene Technicians (IHTs) were dispatched and performed Direct Reading Instrument (DRI) monitoring and gathered bag samples inside 271AP. At approximately 0839 Event Investigation Report, (EIR) EIR-2018-035, *AOP-015 Investigation of Odors in 271AP Building*, was initiated by the CSO. At approximately 0840 IHT response team reported odors being prevalent near an open garbage can with discarded food items in it. At approximately 0859 a Shift Office Event

Notification (SOEN) was released stating, "Update on AOP-015 Response: 271AP Building is the ONLY building affected by AOP-015 response. Access to AP Farm is allowed."

During interviews for EIR-2018-035, the NCO's stated that the odor was strongest next to an open garbage can with food in it, in the open bay room at 271AP. NCO's also stated that they did not smell the odor when they stepped outside at approximately 0810, and that the odor was restricted to inside the building. At approximately 1525 A SOEN notification was sent out stating, "Sample analysis for the TF-AOP-015 event has been completed and the results are at or below background levels. Exiting TF-AOP-015." During interviews, the NCOs stated that two other NCOs utilizing the 271AP building prior to the Tf-AOP-015 entry reported not having smelled any odors.

Personnel interviews were conducted in lieu of a fact finding meeting for this event. On-call ORPFR and Safety Program Services Representative were notified of all actions taking place throughout this event. WRPS-PER-2018-2654 was generated to document the TF-AOP-015 event.

Event Timeline

October 4, 2018

- 0800 NCOs 1 and 2 were performing bottle issuing and pressure watch activities at 271AP instrument building and detected an onion like odor.
- 0803 NCO1 texted their supervisor informing them of the odor.
- 0803 NCOs supervisor instructed them to leave the building.
- 0809 TF-AOP-015 entered, restricting access to the building.
- 0810 NCOs 1 and 2 stood outside 271AP building and waited for SOM to escort them to CSO, where they filled out odor response cards.
- 0820 IHTs dispatched and performed DRI monitoring and gathered bag samples inside 271AP.
- 0839 EIR-2018-035, *AOP-015 Investigation of Odors in 271AP Building*, initiated by CSO.
- 0840 IHT response team reported odors being prevalent near an open garbage with discarded food in it.
- 0859 SOEN released stating, "Update on AOP-015 Response: 271AP Building is the ONLY building affected by AOP-015 response. Access to AP Farm is allowed."
- 1525 SOEN notification was sent out stating, "Sample analysis for the TF-AOP-015 event has been completed and the results are at or below background levels. Exiting TF-AOP-015."

End of event timeline

Event Details

Event	Investigation of 271AP Building AOP-015 Event																																												
Date/time of event	October 4, 2018, time of occurrence ~0800																																												
Location	271AP building																																												
Personnel affected	None																																												
Odor/taste	Onion like odor																																												
Symptoms	None																																												
DRI results during event	Less than the Level of Detection (LOD) for ammonia (NH ₃) and Volatile Organic Compounds (VOCs) on sweep of reported odor location.																																												
IH investigative monitoring/sampling	Readings from bag samples were less than the LOD for Mercury (Hg) and Nitrous Oxide (N ₂ O).																																												
Possible source(s)	The Hapsite evaluation completed on October 4, 2018 concluded that the open garbage can in the 271AP bay room containing discarded food items was likely responsible for the ethyl alcohol and Sulfur oxide (SO _x) compounds observed, due to fermentation and bacterial decomposition. No evidence of any Tank Farm Chemicals of Potential Concern (COPC) was observed.																																												
Weather conditions on October 4, 2018	<table> <tr> <th rowspan="2">Time PST</th><th colspan="2">Wind</th><th rowspan="2">Ave Temp</th><th colspan="2">Bar</th><th rowspan="2">RH</th></tr> <tr> <th>Dir (From)</th><th>Wind Spd</th><th></th><th></th></tr> <tr> <td>7:45</td><td>173</td><td>3.6</td><td>48.3</td><td>29.232</td><td></td><td>46.3</td></tr> <tr> <td>8:00</td><td>170</td><td>3.4</td><td>50.3</td><td>29.249</td><td></td><td>43.9</td></tr> <tr> <td>8:15</td><td>165</td><td>2.8</td><td>52.0</td><td>29.246</td><td></td><td>41.5</td></tr> <tr> <td>8:30</td><td>262</td><td>1.9</td><td>52.8</td><td>29.235</td><td></td><td>37.8</td></tr> </table>						Time PST	Wind		Ave Temp	Bar		RH	Dir (From)	Wind Spd			7:45	173	3.6	48.3	29.232		46.3	8:00	170	3.4	50.3	29.249		43.9	8:15	165	2.8	52.0	29.246		41.5	8:30	262	1.9	52.8	29.235		37.8
Time PST	Wind		Ave Temp	Bar		RH																																							
	Dir (From)	Wind Spd																																											
7:45	173	3.6	48.3	29.232		46.3																																							
8:00	170	3.4	50.3	29.249		43.9																																							
8:15	165	2.8	52.0	29.246		41.5																																							
8:30	262	1.9	52.8	29.235		37.8																																							
Waste disturbing or tank work in adjacent area	Per the release sheets for AP farm on October 4, 2018, no waste disturbing or tank work in the adjacent area was occurring.																																												
Other work in adjacent area	Per the Daily Report for AP Farm on October 4, 2018, no work in the adjacent area is likely to have caused the odor.																																												

Preliminary Extent of Condition Review

This TF-AOP-015 entry is specific to 271AP building. Given the potential source and associated potential causes, the preliminary extent of condition is bound to the immediate area.

Discussion of Potential Causes

The Hapsite evaluation completed on October 4, 2018 concluded that the open garbage can in the 271AP bay room containing discarded food items was likely responsible for the ethyl alcohol and SOx compounds observed, due to fermentation and bacterial decomposition. No evidence of any Tank Farm COPC was observed.

Immediate Actions Taken

1. NCOs supervisor instructed NCOs to evacuate 271AP building.
2. TF-AOP-015 entered, restricting access to the building.
3. NCOs escorted to CSO, to fill out odor response cards.
4. IHTs dispatched and performed DRI monitoring and gathered bag samples inside 271AP.
5. EIR-2018-035, AOP-015 Investigation of Odors in 271AP Building, initiated by CSO.

History/PER Search

- A recent PER search revealed that no other PERs have been documented regarding odors in the 271AP building.

Recommendations/Proposed Corrective Actions /Lessons Learned

- Recommend plan be developed for routine garbage removal at the 271AP instrument building.

Discussion of Potential Barriers

- The 271AP instrument building's airflow is not drawn from tank headspace. The instruments in 271AP are remotely wired to the tanks.

Documents Reviewed

1. Odor Response Plan
2. Daily Report for October 4, 2018
3. Odor response cards
4. NCO 1 & 2 personal statements
5. CSM Log entries for TF-AOP-015
6. Release sheets for AP farm on October 4, 2018
7. Pictures of garbage bin in 271AP building

Attachments

1. Odor response cards, 2 pages
2. Odor Response Plan and Site Wide Industrial Hygiene Database (SWIHD) report for DRI Survey #18-09275, 6 pages
3. Pictures of garbage bin in 271AP building, 1 page

Attachment 1, Odor Response Cards

ODOR RESPONSE CARD - 241-AP FARM

1. Contact CSM, Complete below bulleted information and map.

- Date and time odor was noticed 10-4-2015 at 8:00 AM
- Your name and the work you were performing [REDACTED]
- Location of odors (mark area on map and wind direction) Ap. Control building 241-AP 271
- Name(s) of others in or near the affected area [REDACTED]
- Was an IHT present? NO
- Describe the odor ☐ Sweet ☐ Sour ☐ Musty ☐ Earthy ☐ Metallic ☐ Smoky ☐ Rotten ☒ Onion
☐ Cleaning Solution ☐ Ammonia ☐ Other: _____
- Possible Source Unknown
- Your symptoms (if any) ☐ Headache ☐ Dizziness/Light-Headed ☐ Nausea ☐ Cough
☐ Fatigue/Drowsiness/Weakness ☐ Sore/Burning Throat ☐ Difficulty Breathing
☐ Watery/Irritated Eyes/Trouble with Vision ☐ Tingling/Numbness/Paralysis ☐ Rash/Itching
☐ Other: None

2. Send this card to the Central Shift Office.

Page 2 of 2 A-8006-929 (REV 1)

OFFICIAL USE ONLY (when filled in)

ODOR RESPONSE CARD - 241-AP FARM

Odors Detected with NO Immediate symptoms

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager. [REDACTED]
Provide the bulleted information below.
3. Complete map, return to Central Shift Office as soon as practicable.

Odors Detected WITH Symptoms

4. Notify Immediate Supervisor.
5. Contact CSM. [REDACTED]
complete below bulleted information and map.
 - Your name and the work you were performing
 - Your symptoms (if any)
 - Date and time odor was noticed
 - Location of odors (mark area on map and the wind direction)
 - Describe the odor
 - Name of other in or near the affected area
 - Was an IHT present?
 - Possible source
6. Provide information on the back of card.
7. Send this card immediately to the Central Shift Office.

Page 1 of 2 A-8006-929 (REV 1)

OFFICIAL USE ONLY (when filled in)

ODOR RESPONSE CARD - 241-AP FARM

1. Contact CSM, Complete below bulleted information and map.

- Date and time odor was noticed 10-4-18 8:00 AM
- Your name and the work you were performing [REDACTED] Boiler support
- Location of odors (mark area on map and wind direction) AP Control Building / 271 building
- Name(s) of others in or near the affected area [REDACTED] (NCO)
- Was an IHT present? NO
- Describe the odor ☐ Sweet ☐ Sour ☐ Musty ☐ Earthy ☐ Metallic ☐ Smoky ☐ Rotten ☒ Onion
☐ Cleaning Solution ☐ Ammonia ☐ Other: _____
- Possible Source un known
- Your symptoms (if any) ☐ Headache ☐ Dizziness/Light-Headed ☐ Nausea ☐ Cough
☐ Fatigue/Drowsiness/Weakness ☐ Sore/Burning Throat ☐ Difficulty Breathing
☐ Watery/Irritated Eyes/Trouble with Vision ☐ Tingling/Numbness/Paralysis ☐ Rash/itching
☐ Other: None

2. Send this card to the Central Shift Office.

Page 2 of 2 OFFICIAL USE ONLY (when filled in) A-6005-929 (REV 1)

ODOR RESPONSE CARD - 241-AP FARM

Odors Detected with NO Immediate symptoms

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager, [REDACTED]. Provide the bulleted information below.
3. Complete map, return to Central Shift Office as soon as practicable.

Odors Detected WITH Symptoms

4. Notify Immediate Supervisor.
5. Contact CSM, [REDACTED], complete below bulleted information and map.
 - Your name and the work you were performing
 - Your symptoms (if any)
 - Date and time odor was noticed
 - Location of odors (mark area on map and the wind direction)
 - Describe the odor
 - Name of other in or near the affected area
 - Was an IHT present?
 - Possible source
6. Provide information on the back of card.
7. Send this card immediately to the Central Shift Office.

241-AP FARM

Page 1 of 2 OFFICIAL USE ONLY (when filled in) A-6005-929 (REV 1)

Attachment 2, Odor Response Plan and Site Wide Industrial Hygiene Database report for DRI Survey #18-09275

Page 1 of 1

Response to Reported Odors or Unexpected Changes to Vapor Conditions

Attachment 1 – Odor Response Plan

DESCRIPTION OF EVENT (date/time & description of odors detected, location, symptoms, etc): 10/04/2018 @ 0808. 271-AP Instrument Building. Two NCOs performing pressure watch checks at the 271-AP Instrument Control building observed stronger than normal "onion" odor. Neither NCO experienced symptoms and declined medical evaluation. No intrusive work was occurring at the time and adjacent farm was in standard operational configuration.			
RESPONSE STEPS: <i>Attach additional pages as needed</i> 0808 SOEN issued: "SOEN-Entering AOP-015 for odors at 271AP Building. Exit 271AP to a safe location upwind and report to your supervisor. CSM" 0810 EV team IH receives phone call from AN team IH. AN team IH is currently at 271-AP Instrument Control Building with work crew. 0811 AY/AZ and EV team IH arrive at CSO. 0813 AN team IH calls EV team IH and gives history of occurrence: 2 NCOs experienced stronger than normal "onion" odor while performing pressure watch in 271-AP. Neither experienced symptoms and declined medical. Odor was noticed near bottle storage rack. AY/AZ IH and EV team IH determine action response falls under 3.1.14 of TF-AOP-015 and begin implementation of Odor Response Plan. 0820 IHT supervisor and shift IHTs arrive at CSO and are dispatched to pull a bag sample and monitor with DRI instrumentation. Voluntary respiratory protection is offered under Task for AOP-015 RPF. 0831 NCOs arrive at CSO to fill-out Odor Response Card. While documenting information they are overheard to mention "smelly garbage." 0840 Received photos of waste found in Instrument Control building. Message from response personnel indicated odors were especially prevalent near the garbage. Garbage contained decomposing food products. Garbage was removed from its container and prepared for disposal in an outdoor dumpster. 0856 "SOEN-Update on AOP-015 Response: 271AP Building is the ONLY building affected by AOP-015 response. Access to AP Farm is allowed. CSM"			
IH Sampling Plan # _____ per IH direction		RWP # <u>N/A</u>	
JHA: <u>N/A</u>		Other DRI Survey # <u>18-09275</u>	
REQUIRED APPROVAL SIGNATURES			
Industrial Hygiene:	_____ Signature	_____ Print (First & Last)	<u>10/04/2018</u> Date
Shift Manager:	_____ Signature	_____ Print (First & Last)	<u>10/4/18</u> Date
ADDITIONAL SIGNATURES (as determined by Shift Manager or Safety & Health Rep; N/A if not applicable)			
RadCon:	<u>N/A</u> Signature	_____ Print (First & Last)	_____ Date
Environmental:	<u>N/A</u> Signature	_____ Print (First & Last)	_____ Date
Engineer:	<u>N/A</u> Signature	_____ Print (First & Last)	_____ Date
Industrial Safety:	<u>N/A</u> Signature	_____ Print (First & Last)	_____ Date
Odor Response Plan Notes (monitoring data, results of actions taken, etc. Use more sheets as necessary) Two IHTs were deployed to conduct DRI monitoring of 271AP and pull bag samples from identified/suspected source. DRI monitoring results were non-detect. Two bag samples were collected (one from general area near the bottle holding area within 271AP and the other from the garbage can where odors were noticeable. Please reference EIR-2018-035 for further documentation of event.			
RESPONSE PLAN COMPLETED:			
Safety & Health Rep:	_____ Signature	_____ Print (First & Last)	<u>10/4/18</u> Date

Type	Document No.	Rev/Mod	Release Date	Page
REFERENCE	TF-AOP-015	G-5	06/25/2018	8 of 10

SWIHD - DRI Completed Survey





Page 1 of 7

**Washington River Protection Solutions
IH DRI Monitoring Survey**


Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Survey ID:	18-09275	Survey Date:	10/04/2018	Survey Status:	Complete
Survey Title:	AOP 015 271-AP Instrument Building				
Sample Plan:	N/A				
WO/Procedure:	N/A				
Requestor:	Prod Ops Shift Office	Project IH:			
Surveyor:		Contact Cell Phone:			
Job Contact:					
Contact Phone:		Administrative Cntls:	None		
Engineering Cntls:	None				

Meteorology Data			
Standard Conditions:	Yes	Weather Date:	10/04/2018
Pressure:	29.24 in/Hg	Humidity:	43.9 %
Wind Direction:	152	Temperature:	49.9 °F
Time:	0800	Wind Speed:	4 mph

Comments
<p>AOP-15 was called out at approximately 0807. IHT's met IH  at 271-AP Instrument Building. Two bag samples were taken inside the building. The first bag sample (Bag 1) was an area sample of the area surrounding the bottle holding location. Upon further investigation, IH found rotten fruit, dated sandwich containers, etc. in the nearby garbage. The second bag sample (Bag 2) taken was from the garbage can where an odor was noticeable. IH took pictures of garbage can contents. Bag samples were brought back to IH lab to take readings with needed DRI instruments. Both IHT's and IH did not show any symptoms of an odor uptake upon leaving 271-AP Instrument Building.</p> <p>SKC PUMP-001524 used at 4.2 lpm</p>

Attachments
<p>Bag samples AOP-15 271-AP Bldg SWIHD 18-09275.png</p> <p>HAPSITE AOP-015 271-AP 10-04-2018.pdf</p>

SWIHD - DRI Completed Survey

Page 2 of 7

Washington River Protection Solutions

Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Calibration

Instrument		Agents	
ID:	002034	CAS	Description
Type:	Hapsite GC-MS Inficon	N/A	VOC-Hapsite
Serial Number:	70064729		
Last Cal Date:	12/01/2014		
Next Cal Due Date:	12/01/2034		
Lamp:	n/a		

THD - DRI Completed Survey

Page 3 of 7

Washington River Protection Solutions

Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Calibration

Instrument		Pre Use Function Test	Post Use Function Test
ID:	000797	Date: 10/04/2018	Date: 10/04/2018
Type:	MIRAN 205B TEI	Time: 0926	Time: 0939
Serial Number:	205B-79384-398	Flow/Fault Check: Yes	By: [REDACTED]
Last Cal Date:	12/16/2017	Battery Check: Yes	Location: Office
Next Due Cal Date:	12/16/2018	By: [REDACTED]	
Lamp:	No	Location: Office	
Sensor(s)		Pre Use Function Test	Post Use Function Test
Sensor:	MIRAN 205B TEI IR	As Found: 23.8 ppm	As Left: 23.7 ppm
Calibration Source:	Nitrous Oxide	Adjusted To: N/A	
Lot Number:	6-050-205		
Manufacture Date:	02/22/2016		
Expiration Date:	02/22/2019		
Cal Source Value:	25.0 ppm		

SWIHD - DRI Completed Survey

Page 4 of 7

Washington River Protection Solutions

Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Calibration

Instrument		Pre Use Function Test	Post Use Function Test
ID:	002475	Date: 10/04/2018	Date: 10/04/2018
Type:	RA 915M Ohio Lumex	Time: 0750	Time: 1300
Serial Number:	2533	Flow/Fault Check: Yes	By: [REDACTED]
Last Cal Date:	11/27/2017	Battery Check: Yes	Location: Office
Next Due Cal Date:	11/27/2018	By: [REDACTED]	
Lamp:	N/A	Location: Office	
Sensor(s)		Pre Use Function Test	Post Use Function Test
Sensor:	RA 915M Ohio Lumex mercury	As Found: 4%	As Left: 2%
Calibration Source:	Mercury	Adjusted To: N/A	
Lot Number:	Internal-2018		
Manufacture Date:	01/01/2018		
Expiration Date:	12/31/2018		
Cal Source Value:	<25%		

SWIHD - DRI Completed Survey

Page 5 of 7

Washington River Protection Solutions

Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Calibration

Instrument		Pre Use Function Test	Post Use Function Test
ID:	001795	Date: 10/04/2018	Date: 10/04/2018
Type:	MultiRAE Pro RAE	Time: 0755	Time: 1320
Serial Number:	MCB3Z037R3	Flow/Fault Check: Yes	By: [REDACTED]
Last Cal Date:	04/17/2018	Battery Check: Yes	Location: Office
Next Due Cal Date:	10/17/2018	By: [REDACTED]	
Lamp:	10.6ev	Location: Office	
Sensor(s)		Pre Use Function Test	Post Use Function Test
Sensor:	MultiRAE Pro RAE CO NA		
Sensor:	MultiRAE Pro RAE LEL NA		
Sensor:	MultiRAE Pro RAE NH3	As Found: 25 ppm	As Left: 25 ppm
Calibration Source:	Ammonia	Adjusted To: N/A	
Lot Number:	7-331-101-1		
Manufacture Date:	12/01/2017		
Expiration Date:	12/01/2019		
Cal Source Value:	25.1 ppm		
Sensor:	MultiRAE Pro RAE O2 NA		
Sensor:	MultiRAE Pro RAE ppb PID	As Found: 10 ppm	As Left: 9.8 ppm
Calibration Source:	Isobutylene	Adjusted To: N/A	
Lot Number:	7-331-201		
Manufacture Date:	11/28/2017		
Expiration Date:	11/28/2020		
Cal Source Value:	10.0 ppm		

SWIHD - DRI Completed Survey

Page 6 of 7

Washington River Protection Solutions

Date: 10/17/2018, 08:38 AM

Survey ID: 18-09275 - AOP 015 271-AP Instrument Building

Survey Date: 10/04/2018

Readings

Type:	Area			
Farm - Specific Location:	Non-Farm - See Other			
Other:	AOP-15			
Farm Status:	N/A			
RC:				
Activity:	AOP-15 Bag Sample Readings			
Date/Time:	10/04/2018 0833			
Device	Agent	Range	Result	Action Limit
Inst-000797 - IR	Nitrous Oxide		0.000 PPM	25 ppm
Inst-001795 - NH3	Ammonia		0.000 ppm	12 ppm
Inst-001795 - ppb	Volatile Organic Compound		0.000 ppb	2 ppm
PID				
Inst-002034	VOC-Hapsite		N/A	10000 N/A
Inst-002475 - mercury	Mercury		0.000 ng/m3	0.01 mg/m3
Reading Details: Bag 1 (bag filled during sweep of 271-AP instrument building interior)				

Type:	Area			
Farm - Specific Location:	Non-Farm - See Other			
Other:	AOP-15			
Farm Status:	N/A			
RC:				
Activity:	AOP-15 Bag Sample Readings			
Date/Time:	10/04/2018 0835			
Device	Agent	Range	Result	Action Limit
Inst-000797 - IR	Nitrous Oxide		0.000 PPM	25 ppm
Inst-001795 - NH3	Ammonia		0.000 ppm	12 ppm
Inst-001795 - ppb	Volatile Organic Compound		0.000 ppb	2 ppm
PID				
Inst-002034	VOC-Hapsite		N/A	10000 N/A
Inst-002475 - mercury	Mercury		0.000 ng/m3	0.01 mg/m3
Reading Details: Bag 2 (From garbage can. Bag filled from open garbage about 6 inches above garbage can opening)				

Type:	Area			
Farm - Specific Location:	Non-Farm - See Other			
Other:	AOP-15			
Farm Status:	N/A			
RC:				
Activity:	AOP-15 Bag Sample Readings			
Date/Time:	10/04/2018 0834			
Device	Agent	Range	Result	Action Limit
Inst-000797 - IR	Nitrous Oxide		N/A	25 ppm
Inst-001795 - NH3	Ammonia		0.000 ppm	12 ppm
Inst-001795 - ppb	Volatile Organic Compound		0.000 ppb	2 ppm

SWIHD - DRI Completed Survey

Page 7 of 7

PID				
Inst-002034	VOC-Hapsite		N/A	10000 N/A
Inst-002475 - mercury	Mercury		0.000 ng/m3	0.01 mg/m3
Reading Details: DRI readings from area sweep inside 271-AP Instrument Building				

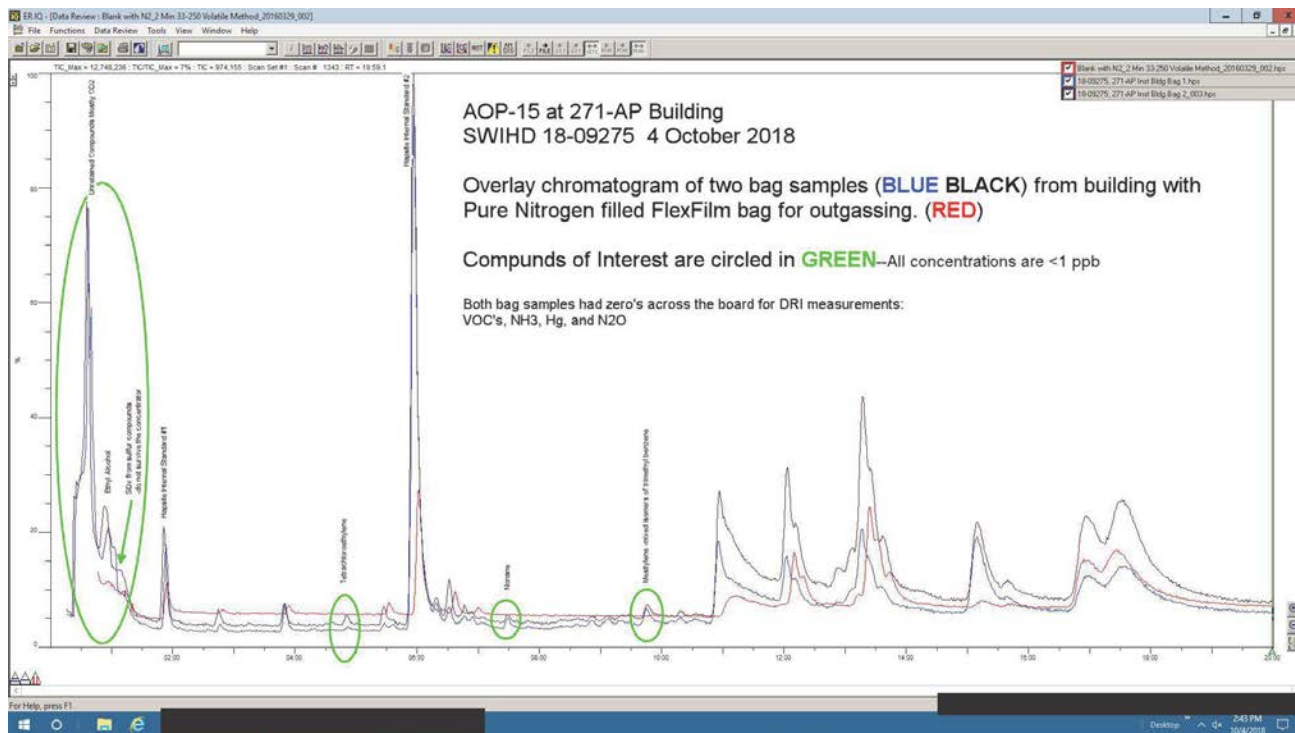
Field Information Verified By: [REDACTED]

Date: October 17, 2018

Approved By: [REDACTED]

Date: October 17, 2018

(The electronic approval indicated above acts as the authentication of this record on the above date)



Attachment 3, Pictures of garbage bin in 271AP building

