				estigation of AOP-015 Between AY-1 & AY- 2 Change Trailers Outside AY Farm"		
Date: 09/24/2020	Time: 0	906			: Between AY-1 & AY-2 railers Outside AY Farm	
Number of Workers Involved: <i>3</i> Odor Response Card filled out: Yes \boxtimes No \square How many?						
Symptoms: Yes ⊠ No □ [1 of 3]	Sampli	ng Resu	lts #: 20-0	6385		
Medical Evaluation Offered:	Medica	l Evalua	tion Decl	ined: Yo	es 🗆 No 🛛	
Yes 🛛 No 🗆						
Return to Work Status						
Number of workers returned to work without restriction 3				3		
	Number of workers returned to work with restriction 0			0		
Number of workers referred for further eva	-				0	
Transported to Site Occupational	Odor D	escripti	on: Rotten	Egg; P	ropane	
Medical Services (HPMC) Yes ⊠No □						
MSA Activities:	1		<u> </u>		nnk work in adjacent area:	
Biological/Herbicide	Yes 🗆 🛛	Activity	or work re	eleased_		
Septic Service ⊠ Other: N/A	No 🛛					
Meteorological Data:						
Time:Weather Station #:Speed: (MPH)	Direction (N/S/E/		Tempera F/C		Barometric Pressure (steady/rising/falling):	
0840 6 18 MPH, Gusts to 20 MPH	From th	e SW	62°F		29.20" of mercury and rising (humidity @ 49%)	
Eve	nt Summ	nary &	Timeline	;		

*Words in italics for explanatory/example purposes only, delete upon completion of report.

Initiating event:

On September 24, at 0840, two employees encountered a "rotten egg smell" in between AY-1 and AY-2 Change Trailers (outside of access controls). No symptoms experienced, and medical evaluation resulted in workers being released without restriction.

Additional event:

A short time later, at 1000, a third worker walked through the restricted access boundary (installed as response to the initial odor response – TF-AOP-015) at 4th and Buffalo St. and encountered a "propane" odor. The individual complained of "dry mouth" symptom and was evaluated by HPMC – and was released to work without restriction.

At the time odors were reported, the individuals were not working in an area requiring use of respiratory protection. IHT was not present during initiating event. The employees immediately exited the area upon smelling the odor and notified the Central Shift Manager (CSM). Access to the area was restricted after the CSM entered into TF-AOP-015, "Response to Reported Odors or Unexpected Changes to Vapor Conditions". AOP-015 response actions commenced, and the area underwent air sampling as per RPF-TF-AOP-015. DRI sampling results found nothing above background levels, and a bagged grab-sample was taken to be further analyzed. Results of all sampling can be found in the following TF-AOP-015 Industrial Hygiene Investigation Report – no potential sources were identified.

An Event Investigation Meeting was not held for this event.

Event Timeline:

*See Attached IH Event Report

Immediate Actions Taken:

- 1. Workers exited the area
- 2. Notified CSM

Compensatory Measures:

None taken.

Readings from Sampling and/or Monitoring:

*See Attached IH Event Report

Facility Impact

The area was evacuated and barricaded while responding personnel performed samples. Sample results cleared the area for regular work <2 hours from AOP-015 initiation.

Discussion of Potential Source(s):

No potential sources identified.

Recommendations/Factors for Evaluation:

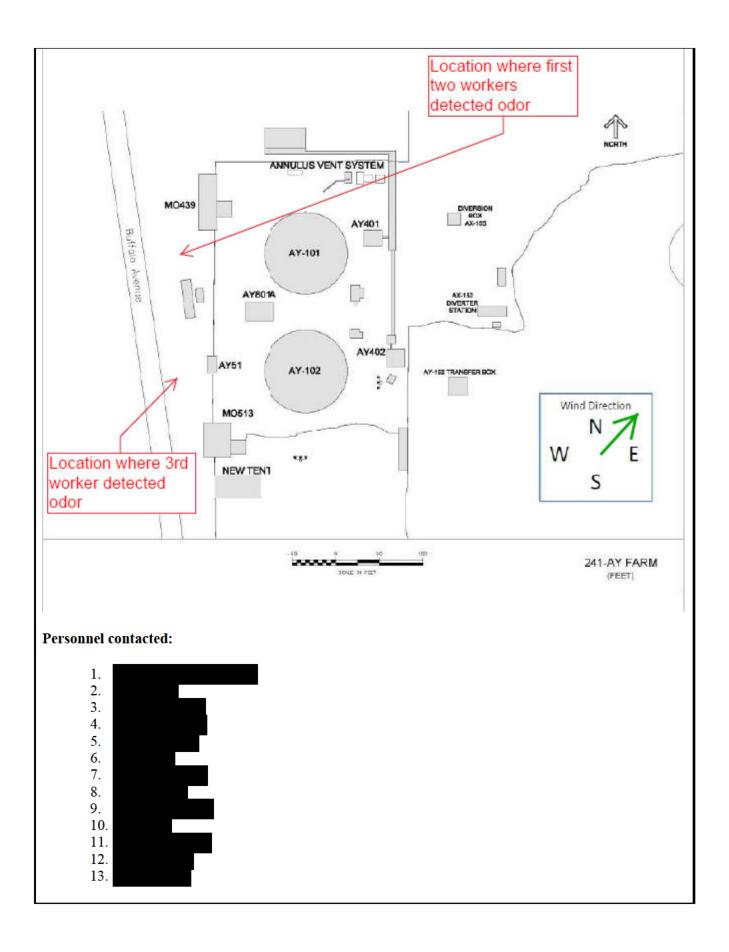
None at this time.

Condition(s) Adverse to Quality:

None at this time.

Discussion of Positive Aspects of the Event:

Workers notified management of the odor.



100000 m ii			
Attachment	s (as they apply):		
1.	WRPS TF-AOP-015 Industrial Hygiene Inv	vestigation Report (11 pag	es)
2.	TF-AOP-015 Communication Template		
3.	TF-AOP-015 Follow-Up Event Summary		
4.	Respiratory Protection Form RPF-TF-AOP	-015; Rev. 7	
Responsible	e Manager:		11/10/2020
Responsible	e Manager: <u>Print (Fist and Last)</u>	Signature	11/10/2020 Date
Responsible Event Invest	Print (Fist and Last)	Signature	11/10/2020 Date

.

Washington River Protection Solutions TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

PER Number:

Time/Date & Event location: 0840 09/24/2020 Between AY-1 and AY-2 Change Trailers WRPS-PER-1438

EIR Number: EIR-2020-039

1. Event Summary (including number of workers involved and activity in progress):

3 workers encountered "rotten egg smell" in between AY-1 and AY-2 change trailers, 2 of the 3 workers did not report symptoms. All 3 went to HPMC for evaulation.

Was an IHT Present during initiating event? [] Yes [X] No

IH Monitoring/ Sample Survey Reports:

Event response: 20-06385 Between AY-1 and AY-2 Change Trailers

Weather Conditions at Time of Event:

Ambient outside conditions:

- Weather station:
- Wind Direction and Speed:
- Barometric Pressure (steady/rising/falling):
- Temperature (F°):
- Humidity:

6 @ 0840 From the SW at 18 miles per hour, Gusts to 20 miles per hour 29.20 inches of Mercury and Rising 62 degrees Fahrenheit 49%

Т	Washington River Protection Solutions F-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT	PER Number: WRPS-PER-1438	
ne/Date & Event location: 10 09/24/2020 Between AY-1 and AY-2 Change Trailers		EIR Number: EIR-2020-039	
0908:	Production Operations Industrial Hygiene Manager notifies Production Operations Indu	ustrial	
	Hygienists of potential TF-AOP-015 entry		
	Production Operations Industrial Hygienists arrive at Central Shift Office		
0909:	Central Shift Manager declares TF-AOP-015 Entry and requests resources to support actions	response	
0910:	Central Shift Manager Provides Odor Response Cards to Production Operations Indus Hygienists	strial	
0911:	Production Operations Industrial Hygienist calls Production Operations Industrial Hygie Technician Supervisor to acquire Hydrogen Sulfide sensor equipped Direct Reading In		
0912:	Central Shift Manager Directs Shift Operations Nuclear Control Operators on desired / Restrictions		
0914:	Production Operations Industrial Hygiene Manager arrives at Central Shift Office to su response actions	pport	
0916	SOEN: "Entered AOP-015 for odors reported between AY-1 and AY-2 change trailers. stay upwind and clear of this area unless authorized by Shift Manager. CSM"	All personnel	
0915:	Production Operations Industrial Hygiene Technician Supervisor informs Production O	perations	
	Industrial Hygienists that MultiRAE PRO with Hydrogen Sulfide sensor is being function delivered to Central Shift Office from Effluent Treatment Facility Industrial Hygiene Lab		
0917:	Central Shift Manager directs response actions as per TF-AOP-015 3.1.12	NOMANJAN M	
0919:	Production Operations Industrial Hygienists contacts Industrial Hygiene Programs TF- Subject Matter Expert for direction on grab sample collection	AOP-015	
0922	Production Operations Industrial Hygienists brief Production Operations Industrial Hyg	iene	
	Technicians on response actions:		
	 Respiratory Protection Equipment as per RPF TF-AOP-015 Task 2 		
	 Monitoring as per Industrial Hygiene Sample Plan IHP-09001 		
	 Ammonia, Volatile Organic Compounds, Hydrogen Sulfide 		
	 2 Grab samples at direction of AOP-015 Subject Matter Expert at location of 	fodor	
	indicated on odor response cards, and/or location where readings indicate	000	
	 Analyze Grab samples with MIRAN SapphIRe for Nitrous Oxide and 	Ohio Lumay	
		J Onio Lumex	
	for Mercury		
	 Deliver grab samples to 2704 HV for analysis by HAPSITE® 	au dan	
	Production Operations Industrial Hygiene Technicians depart Central Shift Office to ac Respiratory Protection Equipment		
	Production Operations Industrial Hygiene Technicians acquire Respiratory Protective I		
0940:	Hydrogen Sulfide Sensor equipped MultiRAE PRO is delivered to Central Shift Office a location of Production Operations Industrial Hygiene Technicians by Production Operations		
0010	Industrial Hygienist	Occupitions	
0942	Production Operations Industrial Hygiene Technician Supervisor is sent to Production Industrial Hygiene Laboratory to direct Production Operations Industrial Technician to p		
0040	MIRAN SapphIRe and Ohio Lumex to support Grab Sample Analysis	neules station	
0943	Production Operations Industrial Hygiene Technicians depart Respiratory Equipment I to begin response actions	ssuing station	
1000	Production Operations Industrial Hygiene Technician Supervisor contacts Production (Operations	
17.22.01	Industrial Hygienist to report that MIRAN SapphIRe and Ohio Lumex are being initialize grab sample analysis		
1001:	Production Operations Industrial Hygiene Manager contacts Industrial Hygiene Progra HAPSITE® to support Grab Sample analysis	ms to prepare	

Washington River Protection Solutions TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT	PER Number: WRPS-PER-1438
/Date & Event location: 09/24/2020 Between AY-1 and AY-2 Change Trailers	EIR Number: EIR-2020-039
 1002: Production Operations Industrial Hygiene Technician contacts Production Compounds: Less than Detectable Ammonia: Less than Detectable Volatile Organic Compounds: Less then detectable Hydrogen Sulfde: Less than detectable Two grab samples collected at location of odor as indicated on 0 Field response actions complete, returning to Production Operat Laboratory to analyze grab samples 1004: Grab samples delivered to Production Operations Industrial Hygiene 1006: Production Operations Industrial Hygiene Manager contacts Industriat that HAPSITE® is being initialized for response actions 1010: Production Operations Industrial Hygiene Subject to the E Post-Use Function tested 1011: Production Operations Industrial Hygiene Technician reports to Cent on instrument Post-Use Function Test 1018: Central Shift Operations Shift Manager is notified that 3 workers who access boundary. One worker experienced propane odor, did not explain that HAPSITE® Industrial Hygiene Regrams Industrial Hygiene Supervisor contacts I industrial Hygiene Programs Industrial Hygiene Supervisor contacts I industrial Hygiene Rongares and solve analysis 1021: Production Operations Industrial Hygiene Technician contacts Production Operations Industrial Hygiene Supervisor contacts I industrial Hygiene Rongares to confirm that HAPSITE® is being initial analysis 1021: Production Operations Industrial Hygiene Technician contacts Production test. 1040: Production Operations Industrial Hygiene Technician contacts Production test. 1040: Production Operations Industrial Hygiene Supervisor contacts I industrial Hygiene test. 1041: Production Operations Industrial Hygiene Supervisor contacts I industrial Hygiene Rongager to confirm that HAPSITE® is being initial analysis 1021: Production Operations Industrial Hygiene Supervisor contacts Production operations Industrial Hygienes Industrial Hygienes Ind	odor response card tions Industrial Hygiene Laboratory al Hygiene Programs to confirm ations Industrial Hygiene Effluent Treatment Facility to be ral Shift Office to update status walked through restricted perience symptoms, and was quested Production Operations ized to support grab sample ction Operations Industrial e Organic Compound sensors ations Industrial Hygiene e Function test
Field IH Author:	

Washington River Protection Solutions TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION REPORT

Time/Date & Event location: 0840 09/24/2020 Between AY-1 and AY-2 Change Trailers EIR-2020-039

2. GCMS Sample Results:

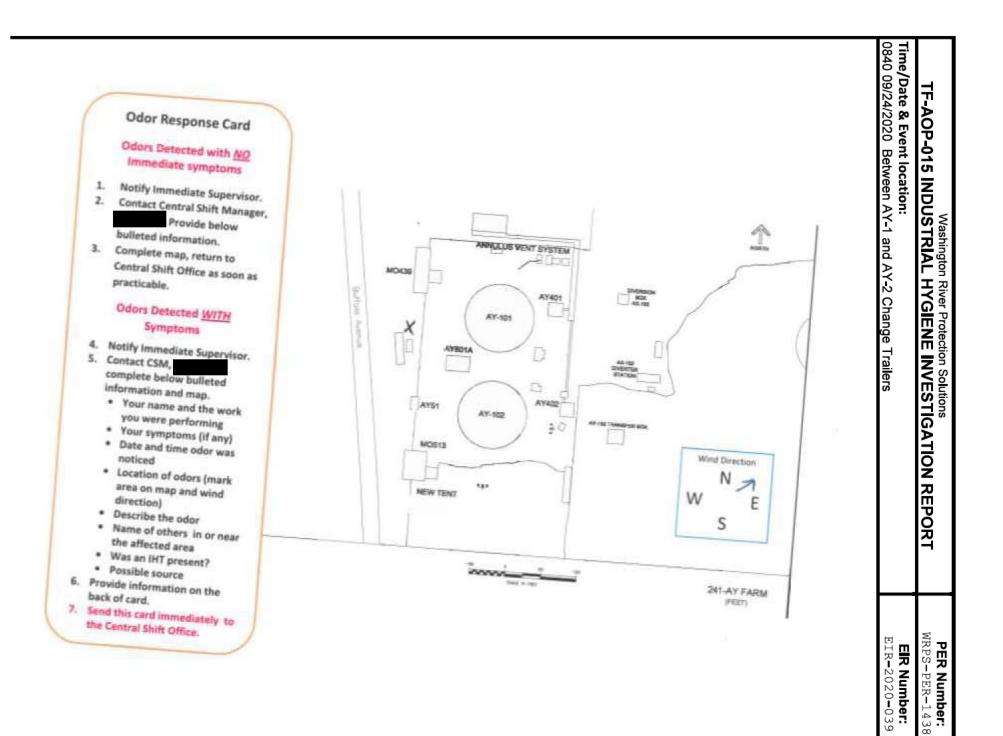
HAPSITE GC-MS Bag Sample Survey 20-06385, September, 24, 2020

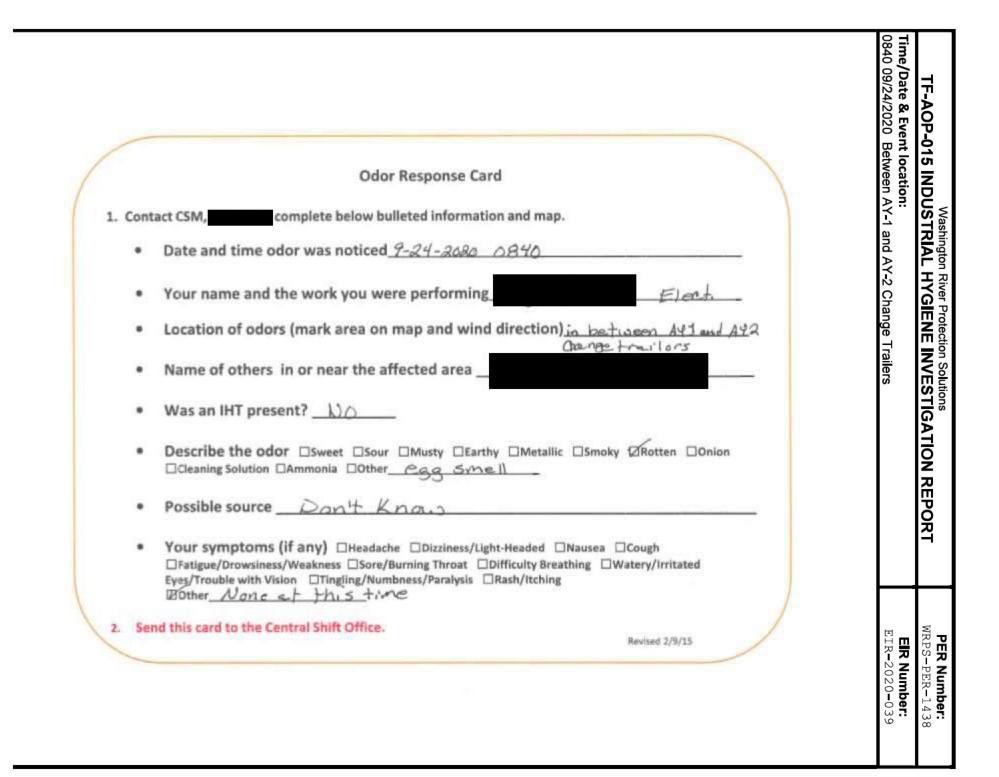
Two Tedlar[™] bag samples were collected during an AOP-15 event on September 24, 2020 and analyzed for VOC's on that same day using an Inficon HAPSITE GC-MS. Data from that analysis was interpreted and reported on November 9, 2020.

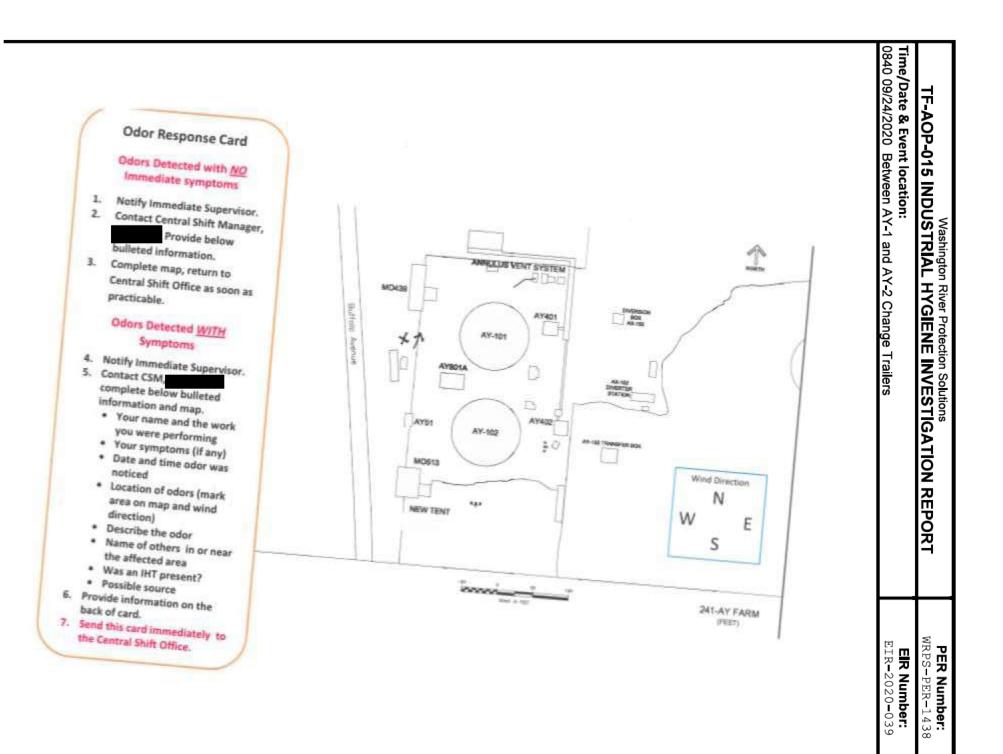
Traces of compounds typical of the sample bag matrix were detected in both samples, but no other compounds were detected above background concentrations in any sample.

If you have questions contact	CIH at	

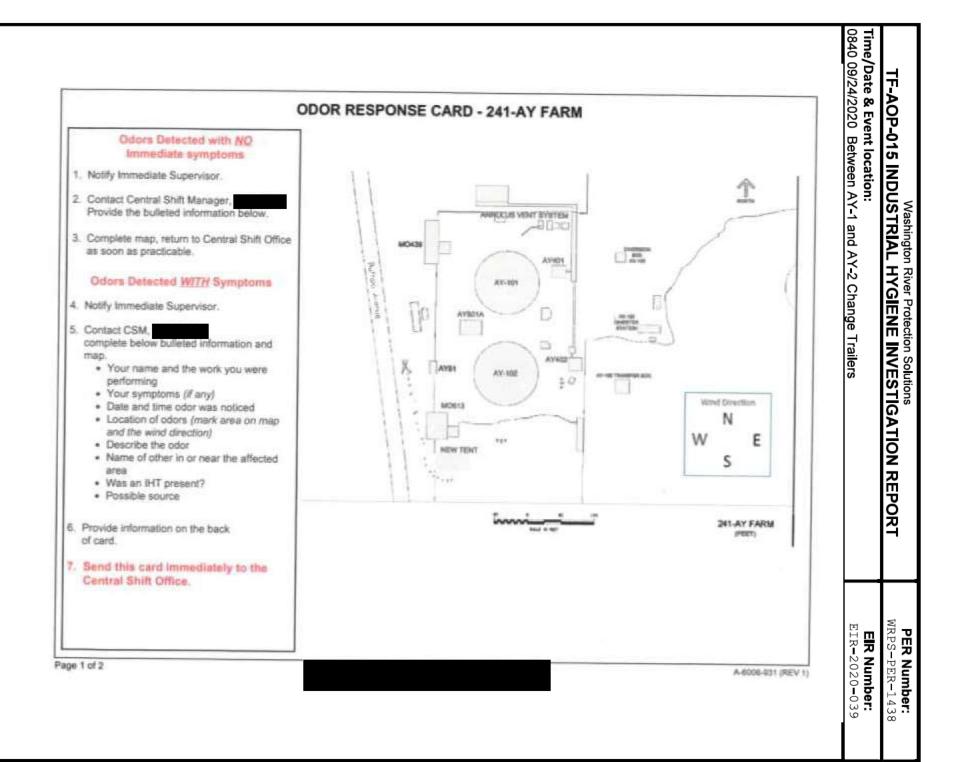
toms (if any) Headache Dizziness/Light-Headed Nausea Cough wsiness/Weakness Sore/Burning Throat Difficulty Breathing Watery/Irritated	Your name Location of Name of ot Was an IHT Describe th	Odor Response Card complete below bulleted information and map. me odor was noticed 9/24/2020 8:40AM and the work you were performing PM3 f odors (mark area on map and wind direction) AY-2 change trailer there in or near the affected area present? No	Additional Information: Odor Response Cards received:	Time/Date & Event location: 0840 09/24/2020 Between AY-1 and AY-2 Change Trailers	Washington River Protection Solutions TF-AOP-015 INDUSTRIAL HYGIENE INVESTIGATION
		Possible source			REPORT







ODOR RESPONSE CARD - 241-AY FARM Interestion: Interestion: Interestion: Date and time odor was noticed <u>09-24-20</u> 10000 Your name and time odor was noticed <u>09-24-20</u> 10000 Your name and time odor was noticed <u>09-24-20</u> 10000 Your name and time odors (mark area on map and wind direction) <u>Ay - 1</u> Name(s) of others in or near the affected area <u>N/A</u> Was an IHT present? <u>NO</u> Describe the odor Sweet Sour Musty Earthy Metallic Smoky Rotten Onion Cleaning Solution Ammonia <u>P</u> Other: <u>PloRwe</u> Possible Source <u>N/A</u> 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 Rast/Itching Other: <u>PloY MOU+h.</u> PLA MOU+h.		2	Time/Date & Event location: 0840 09/24/2020 Between A	TF-AO
 Date and time odor was noticed <u>09-24-20</u> 1000 Your name and the work your were performing <u>Clean & INSRC+ A-fa/M</u> Location of odors (mark area on map and wind direction) <u>Ay-1</u> Name(s) of others in or near the affected area <u>N/A</u> Was an IHT present? <u>NO</u> Describe the odor <u>Sweet</u> Sour <u>Musty</u> Earthy <u>Metallic</u> <u>Smoky</u> Rotten <u>Onion</u> Cleaning Solution <u>Ammonia</u> <u>Other</u>. <u>Plo Rawe</u> Possible Source <u>N/A</u> Your symptoms (<i>if any</i>) <u>Headache</u> <u>Dizziness/Light-Headed</u> <u>Nausea</u> <u>Cough</u> Fatigue/Drowsiness/Weakness <u>Sore/Burning Throat</u> <u>Difficulty Breathing</u> Other: <u>DFY MOU+TK</u> 2. Send this card to the Central Shift Office. 	ODOR RESPONSE CARD - 241-AY FARM		ivent lo 20 Bet	P-015
 Date and time odor was noticed <u>09-24-20</u> 1000 Your name and the work your were performing <u>Clean & INSRC+ A-fa/M</u> Location of odors (mark area on map and wind direction) <u>Ay-1</u> Name(s) of others in or near the affected area <u>N/A</u> Was an IHT present? <u>NO</u> Describe the odor <u>Sweet</u> Sour <u>Musty</u> Earthy <u>Metallic</u> <u>Smoky</u> Rotten <u>Onion</u> Cleaning Solution <u>Ammonia</u> <u>Other</u>. <u>Plo Rawe</u> Possible Source <u>N/A</u> Your symptoms (<i>if any</i>) <u>Headache</u> <u>Dizziness/Light-Headed</u> <u>Nausea</u> <u>Cough</u> Fatigue/Drowsiness/Weakness <u>Sore/Burning Throat</u> <u>Difficulty Breathing</u> Other: <u>DFY MOU+TK</u> 2. Send this card to the Central Shift Office. 	1. Contact CSM, Complete below bulleted information and map.		vcation: ween A	INDU
Claim Correction of others (mark area on map and wind direction)A y = 1 Name(s) of others in or near the affected areaN/A	Date and time odor was noticed 29-24-20 1000		Y-1 ar	Washin STR
Creating Solution Amimonia Direr:	Your name and the work your were performing Clean & INSPect A-fail	in.	_	
Creating Solution Amimonia Direr:	 Location of odors (mark area on map and wind direction)A Y ~_ I 		-2 C	HYG
Creating Solution Amimonia Direr:	Name(s) of others in or near the affected area//A		nange	Frote
Creating Solution Amimonia Direr:	Was an IHT present?		e Tra	
Creating Solution Amimonia Direr:	Describe the odor Sweet Sour Musty Earthy Metallic Smoky Rotten Onion		ilers	NES NES
2. Send this card to the Central Shift Office.	Cleaning Solution Ammonia & Other. Professe			TIG.
2. Send this card to the Central Shift Office.	Possible Source N/A			ATIC
2. Send this card to the Central Shift Office.	Your symptoms (if any) Headache Dizziness/Light-Headed Nausea Cough			ŇR
2. Send this card to the Central Shift Office.	Fatigue/Drowsiness/Weakness Sore/Burning Throat Difficulty Breathing			EPC
2. Send this card to the Central Shift Office.	U Watery/Irritated Eyes/Trouble with Vision D Tingling/Numbness/Paralysis Rash/Itching			DRT
2 A4006-931 (REV 1)	E Other: DFY MOUTH			
2. Send this card to the Central Shift Office. ETR-2020-03: A4006-931 (REV 1)			-	
RPS-PER-143 IR-2020-03: A 4006-931 (REV 1)	2. Send this card to the Central Shift Office,		ы	W
2020-03 A4006-931 (REV 1) 2020-03				PER RPS-
A-6006-931 (REV 1) -1 4 3			2020	Num PER-
	A-6006-9	31 (REV 1)	ber:	1 ber:



e/Date & Event					
0 00/24/2020 04		I AY-2 Change Tra	iloro		EIR Number: EIR-2020-03
0 09/24/2020 Be		TAT-2 Change Tha			111(2020 03
-					
 Summar 	ry of IH Monitorir	ng and Sampling D	ata:		
a. Mon	itoring:				
	Ū				
Event	Response: 20-0	6385 Between AY	-1 and AY-2 Change	Trailers	
c	Grab samples:	Results	Action limit		
	VOC:	<dl< td=""><td>2 ppm</td><td></td><td></td></dl<>	2 ppm		
	NH3:	<dl< td=""><td>12 ppm</td><td></td><td></td></dl<>	12 ppm		
	Hg:	5.000 ng/m ³	0.01 mg/m ³		
	H _{2S}	<dl< td=""><td>0.5 ppm</td><td></td><td></td></dl<>	0.5 ppm		
			PP		
b. Sam					
N/A	4				
4. Summary o	f Employee Reg	orted Informatio	n (e.g., symptoms)		
did not repo		3 went to HPMC	etween AY-1 and AY- for evaulation. At app		
did not repo were releas 5. <u>Recommen</u>	ort symptoms. Al sed to return to w dations/Conclu	II 3 went to HPMC vork, sions:	for evaulation. At app		
did not repo were releas 5. <u>Recommen</u> Identification of \$	ort symptoms. Al sed to return to w dations/Conclu	I 3 went to HPMC vork,	for evaulation. At app		
did not repo were releas 5. <u>Recommen</u> Identification of \$	ort symptoms. Al sed to return to w dations/Conclu	II 3 went to HPMC vork, sions:	for evaulation. At app		
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other:	ort symptoms. Al sed to return to w dations/Conclu Source of the Co	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app		
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other:	ort symptoms. Al sed to return to w dations/Conclu	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app	roximately 12:50 pm	
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other:	ort symptoms. Al sed to return to w dations/Conclu Source of the Co	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app	roximately 12:50 pm	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other:	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	roximately 12:50 pm	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3
did not repo were releas 5. <u>Recommen</u> Identification of \$ 6. Other: S&H Program	ort symptoms. Al sed to return to w dations/Conclu Source of the Co m Management:	II 3 went to HPMC vork, <u>sions:</u> oncern: [] Yes [X	for evaulation. At app] No Digitally signe Date: 2020.11	ed by 	on 9/24/2020, all 3

Washington River Protection Solutions

PER Number:

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Response to Reported Odors or Unexpected Changes to Vapor Conditions

Attachment 2 - Communication Template

The following is example of detail to provide in the electronic form of Communication Template.

2 Hanford workers were taken to HPMC for medical evaluation after reporting odors between AY-1 and AY-2 Change Trailers. No workers reported symptoms.

The employees were performing preventative maintenance at the time of reported odors and were not in an area that requires use of respiratory protection.

Workers were instructed to leave the area, and access to the area has been restricted.

NOTE -	This communication template is to be completed as	s soon as enough information	is available.
Central S	hift Manager / /	Print (Fist & Last)	24 (2020 Date

Туре	Document No.	Rev/Mod	Release Date	Page
REFERENCE	TF-AOP-015	G-7	12/12/2019	9 of 10

Response to Reported Odors or Unexpected Changes to Vapor Conditions

Attachment 3 - Follow-Up Event Summary

The following is example of detail to provide in the electronic form of Follow-Up Event Summary.

	TF-AOP-015 In	itial Report	
Date: 9/24/2020	Time: 1045 hour		Location: AY Farm
Number of Workers Involved: 3		Sampling Results	#: #20-06385
	Event Sur	nmary	
At approximately 0906 hours 2 we Trailers outside of AY Farm, and approximately 1000 hours. 2 of th HPMC for evaluation At approximately 1250 hours the 3 At the time odors were reported, to respiratory protection. All worker IHTs responded to the area and to below action levels. Analytical re- receipt.	a third individual re ne 3 workers did no 3 individuals were r he individuals were s were instructed to ok DRI readings an	ported a propane t report symptoms released from HPI not working in as leave the area. A d a bag sample. I	odor in the same area at a and were transported to MC to return to work. In area requiring use of ccess to the area was restricted. ORI instrument readings were
An event investigation has been in		and Status	
	Return to W		3
Number of workers returned to w Number of workers returned to w			NA
Number of workers referred for f			NA
NOTE - Form is to be completed - To learn more about cher <u>content/uploads/2016/09</u>	once event is stabil mical exposure eva	luations see http://	s are known.
Central Shift Manager:	Signature	/ Print (Fist & L	ast) Date

Туре	Document No.	Rev/Mod	Release Date	Page
REFERENCE	TF-AOP-015	G-7	12/12/2019	10 of 10

RESPIRATORY PROTECTION FORM				
1. Work Control Document: TF-AOP-015				
2. RPF No.: X/A 3. Form Rev No.: 7 4. Form Expiration Date: 09/24/2021				
5. Work Location:				
200 East Area, 200 West Area, and 600 Areas controlled by WRPS except at the 222-S Laboratory Complex				
6. Task Description: Task 1: *Minimum required respiratory protection* Response to reported odors or unexpected changes to vapor conditions INSIDE OF TANK FARM BOUNDARIES when odor is				
suspected to originate FROM TANK WASTE. (TF-AOP-015 3.1.11.3)				
7. Select ONLY One:				
Radiological Industrial Hygiene/Chemical Radiological and Industrial Hygiene/Chemical				
8. Select Appropriate Respirator(s):				
1/2-APR FF-APR FF-PAPR PAPR-HOOD E-Z Flo Airline SAR				
SKA-PAK SAR Carri-Air SCBA PremAire SAR w/Vortex Cooler				
9. Required Cartridge(s) (<i>if applicable</i>)				
10. Cartridge Change Out Schedule(s): X/A				
11. Special Instruction(s):				
6. Task Description: Task 2: *Respiratory protection use when required* Response to reported odors or unexpected changes to vapor conditions OUTSIDE OF TANK FARM BOUNDARIES when odor is suspected to originate FROM TANK WASTE. (TF-AOP-015 3.1.12.3)				
7. Select ONLY One:				
Chemical Radiological and Industrial Hygiene/Chemical				
8. Select Appropriate Respirator(s):				
1/2-APR FF-APR FF-PAPR PAPR-HOOD E-Z Flo Airline SAR				
SKA-PAK SAR Carri-Air SCBA PremAire SAR w/Vortex Cooler				
Other: N/A				
9. Required Cartridge(s) (if applicable)				
10. Cartridge Change Out Schedule(s):				
11. Special Instruction(s):				
6. Task Description: Task 3: *Respiratory protection use when required by management* Response to reported odors or unexpected changes to vapor conditions OUTSIDE OF TANK FARM BOUNDARIES when odor is NOT suspected to originate FROM TANK WASTE. (TF-AOP-015 3.1.13.3)				
7. Select ONLY One:				
Radiological Industrial Hygiene/Chemical Radiological and Industrial Hygiene/Chemical				

RESPIRATORY PROTECTION FORM (Continued)				
1. Work Control Document: TF-AOP-015				
2. RFP No.: N/A 3. Form Rev No.: 7 4. Form Expiration D	ate: 09/24/20)21		
8. Select Appropriate Respirator(s):				
	Airline SAR			
SKA-PAK SAR Carri-Air SCBA PremAire SAR w/Vortex Coc				
	Diel			
Other: N/A				
9. Required Cartridge(s) (<i>if applicable</i>)	E Other	N/A 🛛		
10. Cartridge Change Out Schedule(s):		N/A		
11. Special Instruction(s):		N/A		
6. Task Description:				
Task 4: *Voluntary Use* Response to reported odors or unexpected chang conditions OUTSIDE OF TANK FARM BOUNDARIES. (TF-AOP-015 3.1.14.3)	ges to vapor			
7. Select ONLY One:		□ N/A		
Radiological Industrial Hygiene/Chemical Radiological and Industrial	Hygiene/Chem			
8. Select Appropriate Respirator(s):				
SKA-PAK SAR Carri-Air SCBA PremAire SAR w/Vortex Coo	bler			
Other: N-95				
9. Required Cartridge(s) (<i>if applicable</i>)	<u> </u>	□ N/A		
MSA 1/2APR: N-95 for nuisance dust	815394 818357			
	818346			
N-95 nuisance level dust w/nuisance Level OV removal	818347			
P-95 for low level dust	818354			
p-95 for low level dust w/nuisance level OV removal	818355			
P-100 for particulate	818342			
	818369			
	10123079			
	10146939			
P-100 for particulate w/nuisance level OV and O3 removal	818343			
P-100 for particulate w/nuisance level AG, HF removal	818344			
GMA for organic vapor (OV)	815355			
GMA/P-100 for particulate and organic vapor (P-100,OV)	815362			
GMB for acid gas	815356			
(CL,SD,CD,HC,HS) GMB/P-100 for particulate and acid gas	815363			
(P-100,CL,SD,CD,HC,HS) GMC for organic vapor and acid gas (OV,CL,SD,CD,HC,HS)	815357			

RESPIRATORY PROTECTION FORM (Continued)					
1. Work Control	1. Work Control Document: TF-AOP-015				
2. RFP No.:	N/A 3. Form Rev No.: 7 4. Form Expiration	Date: 09/24/2021			
	GMC/P-100 for particulate, acid gas, and organic vapor	815364			
	(P-100,OV,CL,SD,CD,HC,HS) GMD for ammonia and methylamine (AM,MA)	815358			
	GMD/P-100 for particulate, ammonia and methylamine (P-100,AM,MA)	815365			
	GME for chemical vapor (OV,CL,HC,SD,AM,MA,CD,FM,HF)	815359			
	GME/P-100 for particulate and chemical vapor (P-100,0V,CL,HC,SD,AM,MA,CD,ND,FM,HF)	815363			
	GMI for particulate and iodine vapor (P-100,0V)	815641			
	Mersorb/P-100 for Mercury vapor (P-100, MV, CL)	815368			
3M FF-APR:	P-100 for particulate (P-100)	P-100			
	Organic Vapor (OV)	6001			
	Acid Gases (CL,HC,SD,CD,HS)	6002			
	Organic Vapor/Acid Gases	6003			
	(OV,CL,HC,SD,CD,HS,HF) Ammonia/Methylamine	6004			
	(AM,MA) Formaldehyde/Organic Vapor	6005			
	(OV,FM) Multi-Gas/Vapor	6006			
	(OV,CL,HC,SD,CD,HS,HF,AM,MA,FM) Mercury Vapor/Chlorine Gas	6009			
	(MV,CL,SD) Organic vapor and particulates	6092			
	(P-100,OV) Organic vapor, acid gases and particulates (OV,CL,HC,SD,CD,HS,HF)	60923			
	Particulate and chemical vapor (P-100,OV,CL,HC,SD,CD,HS,HF,AM,MA,FM)	60926			
MSA FF-APR:	R95 for Oil Aerosols	816287			
	P-100 for particulate (P-100)	815175 815176 815177			
	GMA for Organic vapor (OV)	464031			
	GMA/P-100 for particulate and organic vapor	815178			
5	(P-100, OV)	815186			
	GMB for Acid Gas (Cl,SD,CD,HC,HS)	464032			
	GMB/P-100 for particulate and Acid Gas (P-100,Cl,SD,CD,HC,HS)	815179			
	GMC for acid gas and organic vapor (OV,CL,SD,CD,HC,HS)	464046			
	GMC/P-100 for particulate, acid gas, and organic vapor	815180			

RESPIRATORY PROTECTION FORM (Continued)

2. RFP No.:	N/A 3. Form Rev No.: 7 4. Form Exp	iration Date: 09/24/202
	(P-100, OV, CL, SD, CD, HC, HS)	815188
	GMD for ammonia and methylamine	464033
	(AM, MA)	
	GMD/P-100 for particulate ammonia and methylamine	815181
	(P-100, AM, MA)	
	GME for chemical vapor	492790
	(OC, CL, SD, CD, HC, HS, AM, MA, FM, HF)	
	GME/P-100 for particulate and chemical vapor	815182
	(P-100, OC, CL, SD, CD, HC, HS, AM, MA, FM, HF)	
	GMI/P-100 for particulate and iodine vapor	815184
	(P-100, OV)	
	Mersorb for particulate and mercury vapor	815185
	(P-100,CL,MV)	
	D 100 for portioulate	B 400
SCOIL FE-APR	:P-100 for particulate	7422-FP1
	(P-100) Particulate and Mercury Vener	7/00
	Particulate and Mercury Vapor	7422-MB1
	(P-100,CL,MV)	
MSA FF-PAPR:	OptiFilter HE	10080455
	(P-100)	10000400
	OptiFilter OV/CL/CD/HC/HS/SD/HE/HF	10080454
	(OV, CL, CD, HC, HS, SD, HE, HF)	10080454
	OptiFilter AM/CL/CD/FM/HC/HS/MA/SD/HE/HF	10080456
	(AM, CL, CD, FM, HC, HS, MA, SD, HE, HF)	10080458
MSA Optimair	TL PAPR-HOOD:	
-	OptiFilter HE	10080455
	(P-100)	20000100
	OptiFilter OV/CL/CD/HC/HS/SD/HE/HF	10080454
	(OV, CL, CD, HC, HS, SD, HE, HF)	10000101
	OptiFilter AM/CL/CD/FM/HC/HS/MA/SD/HE/HF	10080456
	(AM, CL, CD, FM, HC, HS, MA, SD, HE, HF)	10000100
3M Breathe Ea	asy PAPR-HOOD:	
	HE(P3)	450-00-01R12
	(P-100)	
	OV/HE (AP3)	453-00-01R06
	(P-100,OV)	
	OV/AG/HE (AEP3)	453-03-01R06
	(P-100, OV, CL, HC, SD)	
	OV/AG/HF/HE (ALP3)	453-07-01R06
	(P-100, OV, SD, HF)	
	AG/FORM/HE (EP3)	453-01-01R06
	(P-100,CL,HC,SD,SD,FM)	
	AMM/HE (KP3)	453-02-01R06
	(P-100,AM,MA)	
	FR-57	453-03-02R06
	(P-100, OV, SD, CL, HC, AM, MA, HF, CD, FM)	

] N/A

RESPIRATORY PROTECTION FORM (Continued)						
1. Work Control Docum	nent: TF-AOP-015					
2. RFP No.:	N/A 3. Form Rev No.: 7	4. Form Expiration Date: 09/24/2021				
3 Hours						
11. Special Instruction((s):	□ N/A				
Voluntary use is NOT prescribed, only approved. Be cognizant of physical limitations, visibility limitations, and communication limitations created by respirator use. Voluntary respiratory use is appropriate for most activities. When a job, task or work assignment includes scaffolding, hoisting and rigging, ladders, or use of personal fall protection equipment, arc-flash protection equipment, and/or limited work space; a safety evaluation and approval is needed before issuance.						
12. Radiological Engi	neer/Radiological Work Pla	Date Phone Number				
13_ Industrial Hygieni 		Date Phone Number				
*Both signatures are required for form to be valid						