

## DAILY TAILGATE SAFETY MEETING LOG

SACE
16-118
( upment
ton fined
24 Lu

Are any permits/clearances required on this day?:

### ATTENDEES:

Printed Name:

Oh 70 Bergst 25

Signature:



### SITE ENTRY LOG

Date: \_\_\_\_\_Client: USACE

Location: FURDES MISSILE Job No.: 16-118

Name	Company	Time In	Time Out
Doug murphy	AUT	0800	1600
Tyles let int	i-Imr 1	08:00	1100
andy bligton	HMRI	(\$ 00	1700
Kulo Botella	MMRI	0800	1700
the Itl	HMR	CREE	1000
Cale Bergstrom	ACI	900	1700
AshPhilles	712	800	1030
	1		
	12		
			10
			1
			-
			1



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on Ch	neck	ist		
Definable Feature of Work (DFW): #2 Power washing of Samps Traps, AND Junels	Date: 10.25-17 Time: 0930		Subcontract No:		
Traps, AND TUNNels	Time	i i	930		
InspectionType (circle one): Initial Follow-up					
Item	Yes	No	NA		Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1				
Is the work being performed in accordance with approved design drawings and specifications?	2	(			
ts the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	1				
Is the work being performed cautiously and with acceptable levels of workmanship?	V	/			
Is equipment being operated properly?	~	/			
is the work being performed using proper methods and procedures?	~				
Have any defective or damaged materials been identified?		V	1		
Are results of applicable tests, samples, and/or measurements within acceptable levels?			V	/	
Is the work being performed in a safe manner and in accordance with the SSHP?	V	1			
Have pertinent records been completed or collected?	V	1		Ê	
Have any nonconformances been identified, corrected, and re-inspected?	V				
Notes:	-		1		



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on Cl	neck	ist		
H3 Removal AFSTING AND	Date: 10-25-17 Time: 0930		17	Subcontract No:	
PISPISAL			-		
InspectionType (circle one): Initial Follow-up					
Item	Yes	No	NA		Remarks
is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	V	(			
Is the work being performed in accordance with approved design drawings and specifications?	~	1			
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	V				
is the work being performed cautiously and with acceptable levels of workmanship?	1	(			
Is equipment being operated property?	~				
Is the work being performed using proper methods and procedures?	V			0	
Have any defective or damaged materials been identified?		L	$\langle$		
Are results of applicable tests, samples, and/or measurements within acceptable levels?	V	1		55	-w-08 = \$5.W-09
Is the work being performed in a safe manner and in accordance with the SSHP?	V				
Have pertinent records been completed or collected?	V				
Have any nonconformances been identified, corrected, and re-inspected?	V	ſ			
Notes: Coilected Fest Samples From ; from TANK # 6 (70 55 - w- 09). S	TANO	5 U	#5 amp1	(10 65	55-w-08) and For TEST



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Tolasconic HONDLE	C GENIE	10673495

CHECKLIST	ОК	Not OK	N/A
1. Fuel	~		
2. Lubrication, engine oil		i kana i	-
3. Brakes			
4. Tires, tracks			
5. Air systems			10
6. Horn	1		
7. Safety guards			
8. Mirrors	/		
9. Steering mechanism	V		
10. Cooling water	V		
11. Operation controls	V		
12. Lights and reflectors			
13. Windshield wipers, defroster			1
14. Backup alarm	V		
15. Fire extinguisher			1-
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)	V		
18. Lift arm and bucket	1		
19. Grab handles		1	-
20. Steps (tread, no slip hazards)	/	2	
21. Parking brake			
22. General condition		1	1
Remarks:			
Certification			-
Mon Aut		»- 25-1 Date	
Signature of Certified Operator Compa	any	Date	



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project:	Contractor:	Contract No.: Subcontract No.
ATCAS IV115514E Equipment Description:	Model No.(s):	Serial No.(s):
TAKEZCHI	J18	10659850

CHECKLIST	ОК	Not OK	N/A
1. Fuel	V	1	-
2. Lubrication, engine oil	1	1	-
3. Brakes	/		
4. Tires, tracks			
5. Air systems			
6. Horn	~		
7. Safety guards	1		
8. Mirrors			
9. Steering mechanism	~ ~		
10. Cooling water	V		-
11. Operation controls	V		-
12. Lights and reflectors		1	
13. Windshield wipers, defroster	V		
14. Backup alarm	/	-	
15. Fire extinguisher		-	-
16. Seat belts		1	
17. Filters (air, oil, fuel, hydraulic)	V		-
18. Lift arm and bucket	~		
19. Grab handles	V		
20. Steps (tread, no slip hazards)			-
21. Parking brake	/		1
22. General condition		1	1
Remarks: Certification			
1200 AIE		10-25-1	17
Signature of Certified Operator Compa	any	Date	



Project Name:	Project Number:	Client:
FORMES MISSILE	16-118	ilstie
Project:	Contractor: HmR/	Contract No.: Subcontract No.
AILAS MISSILE Equipment Description: Peterbill VAC FINGLE	Model No.(s): 7260	Serial No.(s): T 260

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	/		
3. Brakes			
4. Tires, tracks	/_		
5. Air systems			-
6. Hom		1	
7. Safety guards	/	1	1
8. Mirrors			-
9. Steering mechanism			
10. Cooling water			-
11. Operation controls			-
12. Lights and reflectors			+
13. Windshield wipers, defroster			
14. Backup alarm	/		+
15. Fire extinguisher		-	1
16. Seat belts			1
17. Filters (air, oil, fuel, hydraulic)			11
18. Lift arm and bucket			1
19. Grab handles			1
20. Steps (tread, no slip hazards)			
21. Parking brake			
22. General condition		1	1

Remarks:

Certification Andes

HAZ-MAT Company

17 10/2 Date

Signature of Certified Operator



Project Name:	Project Number:	Client:
FORBES MISSIE	16-118	USACE
ATLAS MISSILE	Contractor: Hm RI	Contract No.: Subcontract No.
Equipment Description: 64ZZICR	Model No.(s): 7-200	Serial No.(s): T-200

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	/		-
3. Brakes	/		
4. Tires, tracks			
5. Air systems			
6. Hom			
7. Safety guards	/		
8. Mirrors			
9. Steering mechanism			
10. Cooling water		1	
11. Operation controls			
12. Lights and reflectors			
13. Windshield wipers, defroster	//		
14. Backup alarm			
15. Fire extinguisher	/_		
16. Seat belts	/_		
17. Filters (air, oil, fuel, hydraulic)			1
18. Lift arm and bucket			11
19. Grab handles			
20. Steps (tread, no slip hazards)		-	
21. Parking brake		-	-
22. General condition		1	1

Remarks:

Certification

In

Signature of Certified Operator

Haz-nat Company

10/2. Date

#### **TestAmerica Denver**

## Chain of Custody Record



4955 Yarrow Street Arvada, CO 80002

Phone (303) 736-0100 Fax (303) 431-7171

Client Information	Sampler Lao Pr Roth		PM: hmeyer, Stephanie K			Carr	Carrier Tracking No(s):		COC No:						
Client Contact:	Phone:			E-Ma	1)	othmeyer@testamericainc.com							Page: 1 . /		
Mr. Josh Phillips	1			step	hanie.r	othm	eyer@	otestam	ericainc.	com			-	Page of	
Company: Arrowhead Contracting								A	nalysis	Reque	sted			300 #	5
Address:	Due Date Requeste	d: 10/2	112											Preservation Code	s:
10981 Eicher Drive City:	TAT Requested (da	1014( vs):	OIT												M - Hexane N - None
Lenexa	Due Date Requested: 10/26/17 TAT Requested (days): 246- TAT													C - Zn Acetate	O - AsNaO2
State, Zip: KS, 66219								14.0		1.11				E - NaHSO4	P - Ne2O4S Q - Ne2SO3
Phone:	PO#	- 17	L'							1			n n		R - Na2S2O3 S - H2SO4
(515)961-8000	16-126				Î N								1.10		T - TSP Dodecahydrate U - Acetone
Email: iphillips@arrowhead-usa.com	WO #:				No.					11			E	I DINK A	V-MCAA
Project Name:	Project #				Sample (Yes or SD (Yes of No)	ater	=						containers	K-EDTA L-EDA	W - pH 4-5 Z - other (specify)
Atlas Missile Site Lyon County, KS Site	28017409 SSOW#:	_			월혼	s- Wat	s- Soil						1	Other:	
and.	33000				San	VOCs-	- VOCs-	2							
		Sample	Sample Type (C=comp,	Matrix (W=water, S=solid, O=waste/oil,	Field Fittered Sample (Yes or Perform MS/MSD (Yes or No)	8260B_DOD5 -	1 1 1	Percent Moisture					In Northeast		
Sample Identification	Sample Date	Time	G=grab)	BTeTissue, AnAir		826	_	Per	1.11.1		1. 1.	100	1	Special Ins	structions/Note:
	> <	> <	Preserva	tion Code:	XX	A		N			-		12		
35-W-08	10-25-17	1400				3				1				246-7	AT
55-W-09	10-25-17	1400				3								246-7	TAT
55-W-OG TRIP BLANK		-				11							1.00	1.12	
						1									
					Ħ	1								1	
	1				++-	-	-		++						
	1					-	-					++		1	
						1	100			1215	1.1				
						111								1	
				-	T	1			11						
	1	12 mm			++	+	-						++		
					11	-	-		-						
												1.21			
Possible Hazard Identification		0	0000	1	Sa									ined longer than 1 i	
Non-Hazard Flammable Skin Irritant Poi	son B 🔛 Unkn	own	Radiologica	1	-			To Cli		irements:	osal By L	ab	- Al	chive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)		-			3	Decia	u nosu	uctions	QC Redi	mements.					
Empty Kit Relinquished by:		Date:			Time	-					Method o	f Shipment:			
Relinquished by:	Date/Time	7 515		Company	-	Rec	ceived b	by .				Date/Tim	e:		Company
Relinquished by Murphy	10-25-1 Date/Time:	1 20	-	Company		Rec	ceived b	y				Date/Tim	e		Company
Relinquished by:	Date/Time:			Company		Rec	ceived b	ov:	_			Date/Tim	e:		Company
								2	-						
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Cod	oler Ten	nperature	(s) °C and	Other Remai	ks:				



## Daily Quality Control Report

REPORT NO. 9

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 10/26/17

LOCATION OF WORK: <u>Former Forbes Atlas Missile S-5, Lyon County, KS</u> DESCRIPTION: <u>Interim Remedial Action.</u>

#### WEATHER CLASSIFICATION:

No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:	
Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>	
Weather occurred during this shift that caused a partial stoppage of work	Temperature (°F): 71	
Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 71°F Min: 43°F	
Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:	
Explain:	Inches <u>0.00</u>	

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail. Contractors began cleaning flame pit, continued pumping water from main sump pit, continued to filter water from settling tank to treated holding tanks, and conducted maintenance on GAC treatment system (changed bag filter elements).

HMR conducted continuous air quality monitoring while cleaning out Flame Pit. No air contaminants were detected throughout the day while working in the Flame Pit.

Arrowhead received laboratory results from samples submitted for VOC analysis of contents of finished water in holding tanks #2 (sample ID S5-W-07) tank #3 (sample ID S5-W-05) and tank #4 (sample ID S5-W-06). Results indicated no Contaminant of Concern above detection limits. Data was forwarded to USACE for review. Upon receipt of approval from USACE in coordination with KDHE, Arrowhead discharged 21,000 gallons from Tank #2 to the outfall area. Tank #3 and Tank #4 will be released on 10/27/17. Tank #3 and Tank #4 total 42,000 gallons.

Throughout the day continued operation of the GAC treatment system. At the conclusion of work approximately 17,000 gallons had been processed with a cumulative total of approximately 11,000 gallons treated. The total volume of water removed from the various basins is approximately 201,000 gallons.

#### 2. Work Performed Today by Subcontractors:

Began Cleaning Flame Pit.Continued to pump water from main sump pit. No significant change in water level has been noticed.Water level dropped approximately 1ft during the day.

**3.** Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken).

Initial inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.

#### 4. List Type and Location of Tests Performed and Results of These Tests:

Arrowhead received analytical sample results for water sample S5-W-05 and S5-W-06 collected on 10/23 and is associated with 42,000 gallons of treated water held in storage tank #3 and storage tank #4, respectively. Received analytical sample results for water sample S5-W-07 collected on 10/24 and is associated with 21,000 gallons of treated water held in storage tank #2. Please refer to the attached laboratory report detection summary. The completed data package will be transmitted to USACE under separate submittal.

#### 5. Verbal Instructions Received:

USACE in coordination with KDHE approved surface discharge of 63,000 gallons of treated water from tank #2, tank #3, and tank #4. 21,000 gallons of water was released from tank #2, remaining 42,000 gallons from tank #3 and tank #4 will be discharged 10/27/17.

### 6. Corrective Actions Proposed/Taken:

None.

7. Remarks:

None.

8. Safety Violations Observed: None.

**9. CERTIFICATION:** I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

Dy Port

Site Superintendent / Quality Control Officer



Cleaning Flame Pit.



View from inside of Flame pit.



# DAILY TAILGATE SAFETY MEETING LOG

Date: 10/26/17	Client:	USACE	
Location: FORBES MISSILE SITE	Job No.: _	16-11	8
Meeting conducted by: Doug murphy			
Details of safety meeting presented (use back of sheet if necessary):			
Level of Protection: Mo P P.			
Contaminants: TCE, DEC, VC			
Physical Hazards: SLIPS, TRIPS, OND Fal	115	HEAVY	Equipment
Operations finch Points Other:			
PPE. pump operations, Fall he	ezords	and pr	plection_
Confined Space reactiones Resperas	ture,	La doler	Safety

Are any permits/clearances required on this day?:

### ATTENDEES:

Printed Name:

2du ALEYARBROUGH Bote 110

pinst (GAA 8

Signature:



## SITE ENTRY LOG

Date: 10/25/17 Client: USACE

Location: FORBES MISSILE SITE

Job No.: 16-118

Name	Company	Time In	Time Out
Doug Mu-phy	ACF	0800	1700
Tiler Wight	HMRI	08:00	1700
Andy Blanton	HMRI	08:00	1700
Tyler Wright Andy Blanton ALE YARBROUGH	HMR	08:00	1700
11. Botello	HMRI	0800	1700
ale Bergstrom Jason L'Ecure	ACI	90	1700
Vason L'Ecure	USAGE	0900	1600
		-	
	-		
			1
			1
			-
	-		

Tank	Date Filled	Quantity Pumped (gallons)	Sample Date	Data Received	Sample ID	Date Released	Treated Volume Released (gallons)	Notes:
	16-Oct	21,000	16-Oct		S5-W-01	18-Oct	21,000	
	19-Oct		19-Oct		S5-W-04	23-Oct	21,000	
#2	24-Oct	21,000	24-Oct	26-Oct	S5-W-07	26-Oct	21,000	
	17-Oct	21,000	17-Oct	19-Oct	S5-W-02	20-Oct	21,000	
	20-Oct		23-Oct		S5-W-05			
#3								
	17-Oct	21,000	17-Oct	19-Oct	S5-W-03	19-Oct	21,000	
	23-Oct		23-Oct		S5-W-06			
#4								
	25-Oct	21,000	25-Oct		S5-W-08			
#5								
	25-Oct	15,000	25-Oct		S5-W-09			
#C								
#6								
L								

Total Volume Discharged (gallons)

105,000

18,000 gallons currently in tank

Note: Tank #1 designated as untreated water settling basin

Volume treated	183,000	gallons
Volume Pumped if tank #1 is full	204,000	gallons

Volume pumped through COB 10/25 2

201,000

10/27/2017

## **Detection Summary**

Client: Arrowhead Contracting Project/Site: Atlas Missile Site Lyon County, KS TestAmerica Job ID: 280-102726-1

Lab Sample ID: 280-102726-2

5

### Client Sample ID: S5-W-07

Client Sample ID: S5-W-07 Lab Sample ID: 280-102726									
Analyte	Result Qualifier	LOQ	DL Unit	Dil Fac D	Method	Prep Type			
1,2-Dichloroethene, Total	0.33 J	1.0	0.15 ug/L	1	8260B	Total/NA			
cis-1,2-Dichloroethene	0.33 J	1.0	0.15 ug/L	1	8260B	Total/NA			
Trichloroethene	0.43 J	1.0	0.16 ug/L	1	8260B	Total/NA			

### **Client Sample ID: TRIP BLANK**

No Detections.

**TestAmerica** Denver

## **Detection Summary**

#### Client: Arrowhead Contracting Project/Site: Atlas Missile Site Lyon County, KS

TestAmerica Job ID: 280-102678-1

Lab Sample ID: 280-102678-1

### Client Sample ID: S5-W-05

#### No Detections.

Client Sample ID: S5-	W-06					Lab Sa	mple ID: 2	80-102678-
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac I	D Method	Prep Type
Chloromethane	1.1	J	2.0	0.30	ug/L	1	8260B	Total/NA
Client Sample ID: TRI	P BLANK					Lab Sa	mple ID: 2	80-102678-
Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Prep Type



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on Cl	heck	list		
Definable Feature of Work (DFW): A3 REMOUAL, TESTINGAND DISPOSAL				117	Subcontract No:
InspectionType (circle one): Initial Follow-up	-				
item	Yes	No	NA		Remarks
s the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1	1			
s the work being performed in accordance with approved design drawings and specifications?	~	1			
s the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	~	1			
s the work being performed cautiously and with acceptable levels of workmanship?	~	1			
is equipment being operated property?	1	1			
is the work being performed using proper methods and procedures?	V	1			
Have any defective or damaged materials been identified?		V	r		
Are results of applicable tests, samples, and/or measurements within acceptable levels?	V	-		Re. Taul	LAZ, TANKITZ, JANKAY
is the work being performed in a safe manner and in accordance with the SSHP?	V	1			
Have pertinent records been completed or collected?	V	r			
Have any nonconformances been identified, corrected, and re-inspected?	L	1			
Notes: Recreved Risults for Samples ED USACE Approved clischinge of 63,00. fourable test Kesnets	55-1	V-09 Uday	5, 5; 5 U	5. w po~	-ce, and 55-w-07 Regist of



Arrowhead Contracting, Inc.

			11-4		Sheet /
Initial/Follow-up Inspect	ion Cl	ieck	list	-	
Finable Feature of Work (DFW): 12 Power Wushing of Sumps, Traps,			1261	17	Subcontract No:
AND TUNNELS	Time		0930	1	
inspectionType (circle one): Initial Follow-up					
ltem	Yes	No	NA		Remarks
s the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1	r			
s the work being performed in accordance with approved design drawings and specifications?	~				
s the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	2	1			
s the work being performed cautiously and with acceptable levels of workmanship?	V	1			
s equipment being operated properly?	V	1			
s the work being performed using proper methods and procedures?	V	1			
Have any defective or damaged materials been identified?		V		Ľ	
Are results of applicable tests, samples, and/or measurements within acceptable levels?					
is the work being performed in a safe manner and in accordance with the SSHP?	V	1			
Have pertinent records been completed or collected?	v	1			
Have any nonconformances been identified, corrected, and re-inspected?	V	r			
Notes:					



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project: ATLAS MISSILE	Contractor: AcF	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Telescopic MANDLE	R GENIE	106 73 495

CHECKLIST	ОК	Not OK	N/A
1. Fuel			(
2. Lubrication, engine oil	/		
3. Brakes			
4. Tires, tracks			
5. Air systems			1
6. Hom			1
7. Safety guards	V		
8. Mirrors			
9. Steering mechanism	V		
10. Cooling water	V		1.
11. Operation controls			
12. Lights and reflectors	/		
13. Windshield wipers, defroster		1	1
14. Backup alarm			
15. Fire extinguisher			V
16. Seat belts			2
17. Filters (air, oil, fuel, hydraulic)			1.
18. Lift arm and bucket			
19. Grab handles			
20. Steps (tread, no slip hazards)			
21. Parking brake			1
22. General condition			1.000
Remarks:			

Signature of Pertified Operator

ACE Company

<u>u-25-17</u> Date



Project Name:	Project Number:	Client:
FORBES MISSILE	11-118	USACE
Project: ATCAS MISSICE	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
TAILEZCHI	JL 8	10659850

CHECKLIST	ОК	Not OK	N/A
1. Fuel	V		
2. Lubrication, engine oil			
3. Brakes	V		
4. Tires, tracks	~		
5. Air systems			V
6. Horn			
7. Safety guards	/		1
8. Mirrors	/		
9. Steering mechanism	1	مى مەربىيە يەربىيە يەر	-
10. Cooling water	V		
11. Operation controls			
12. Lights and reflectors	V	1	
13. Windshield wipers, defroster			-
14. Backup alarm			
15. Fire extinguisher		and an open	V
16. Seat belts	/		-
17. Filters (air, oil, fuel, hydraulic)	V		-
18. Lift arm and bucket			
19. Grab handles			
20. Steps (tread, no slip hazards)	1	·	
21. Parking brake	V	-	1
22. General condition			<u> </u>
Remarks:			
Certification			
Au nul AIF		0-25-1	17
Signature of Certified Operator Compa	ny	Date	



Project Name:	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Peterbilt Vac Truc	K 8B348	T260

CHECKLIST	ОК	Not OK	N/A
1. Fuel			
	/	1	-
<ol> <li>Lubrication, engine oil</li> <li>Brakes</li> </ol>	1		
	1		
4. Tires, tracks	1		
5. Air systems	1		
6. Horn	1		
7. Safety guards	1		
8. Mirrors			
9. Steering mechanism	1		
10. Cooling water		1	
11. Operation controls		1	
12. Lights and reflectors			
13. Windshield wipers, defroster			1
14. Backup alarm		1.0	
15. Fire extinguisher			1
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)		1	11
18. Lift arm and bucket			
19. Grab handles		1	
20. Steps (tread, no slip hazards)		12	-
21. Parking brake		1	-
22. General condition			1
Remarks:			
Certification			

Signature of Certified Operator

HMEI Company

10-26-17 Date



Project Name:	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Starling Guzzles	T 200	7200

CHECKLIST		ОК	Not OK	N/A
1. Fuel		1		
2. Lubrication, engine oil		1	and i	
3. Brakes		1		
4. Tires, tracks		1		
5. Air systems		1		
5. Horn		1		
7. Safety guards		1	· · · · · · · · · · · · · · · · · · ·	
3. Mirrors		1		1
9. Steering mechanism		1		
10. Cooling water		1		
11. Operation controls		1		
12. Lights and reflectors		1		
13. Windshield wipers, defroster	-	1	1	
14. Backup alarm		/		
15. Fire extinguisher		1		
16. Seat belts		1		
17. Filters (air, oil, fuel, hydraulic)				
18. Lift arm and bucket				1
19. Grab handles			-	
20. Steps (tread, no slip hazards)				
21. Parking brake				
22. General condition		1		-
Remarks:				
Certification	imel	10	21 1-	7
- White -	HMRI	10	-26-1- Date	1
Signature of Pertified Operator	Company		Date	



## Daily Quality Control Report

REPORT NO. 10

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 10/27/17

LOCATION OF WORK: <u>Former Forbes Atlas Missile S-5, Lyon County, KS</u> DESCRIPTION: <u>Interim Remedial Action.</u>

#### WEATHER CLASSIFICATION:

No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:	
Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>	
Weather occurred during this shift that caused a partial stoppage of work	Temperature (°F): 63	
Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 63°F Min: 27°F	
Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:	
Explain:	Inches <u>0.00</u>	

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail. Contractors continued cleaning the flame pit, continued pumping water from main sump pit, continued to filter water from settling tank to treated holding tanks, and conducted maintenance on GAC treatment system (changed bag filter elements).

HMR conducted continuous air quality monitoring while cleaning out Flame Pit. No air contaminants were detected throughout the day while working in the Flame Pit. HMR deployed additional dumpster to remove debris from Flame Pit.

During the cleanup of Flame Pit the contractor (HMR) found a loaded weapon in the bottom of the

pit. The weapon was unloaded and Arrowhead notified USACE. After consulting with USACE Arrowhead contacted the Lyons county sheriff's department. A deputy was dispatched to the work area and the weapon was removed. The Deputy (Rodriguez) collected information from contractors and the land owner to conduct a full report.

Arrowhead received laboratory results from samples submitted for VOC analysis of contents of finished water in holding tanks #5 (sample ID S5-W-08) and tank #6 (sample ID S5-W-09). Data was forwarded to USACE for review. Upon receipt of approval from USACE in coordination with KDHE, Arrowhead discharged 42,000 gallons of water from tank #3 and tank #4 to the outfall area.

Throughout the day continued operation of the GAC treatment system. At the conclusion of work approximately 23,000 gallons had been processed with a cumulative total of approximately 207,000 gallons treated. The total volume of water removed from the various basins is approximately 210,000 gallons. Refer to attached spreadsheet for updated information on water collected and discharged.

#### 2. Work Performed Today by Subcontractors:

Continued cleaning Flame Pit.

Continued to pump water from main sump pit. No significant change in water level has been noticed. Water level dropped approximately 2ft during the day.

**3.** Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken).

Initial inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.

#### 4. List Type and Location of Tests Performed and Results of These Tests:

Arrowhead received analytical sample results for water sample S5-W-08 and S5-W-09 collected on 10/25 and is associated with 42,000 gallons of treated water held in storage tank #5 and storage tank #6, respectively. Please refer to the attached laboratory report detection summary. The completed data package will be transmitted to USACE under separate submittal.

5. Verbal Instructions Received:

None.

- **6.** Corrective Actions Proposed/Taken: None.
- 7. Remarks: None.
- 8. Safety Violations Observed: None.

authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

Dy Rook

Site Superintendent / Quality Control Officer



Debris from bottom of Flame Pit. Removed and cleaned.



Removed debris from back side of Flame Pit.



Cleaning back side of Flame Pit.



Removing debris from Flame Pit.

Tank	Date Filled	Quantity Pumped (gallons)	Sample Date	Data Received	Sample ID	Date Released	Treated Volume Released (gallons)	Notes:
	16-Oct	21,000	16-Oct	18-Oct	S5-W-01	18-Oct	21,000	
	19-Oct	21,000	19-Oct		S5-W-04	23-Oct	21,000	
#2	24-Oct	21,000	24-Oct	26-Oct	S5-W-07	26-Oct	21,000	
	27-Oct	18,000						
	17-Oct		17-Oct		S5-W-02	20-Oct	21,000	
	20-Oct	21,000	23-Oct	26-Oct	S5-W-05			
#3								
	17-Oct	21,000	17-Oct		S5-W-03	19-Oct	21,000	
	23-Oct	21,000	23-Oct	26-Oct	S5-W-06			
#4								
	25.0.4	21.000	25.0.4					
	25-Oct	21,000	25-Oct		S5-W-08			
#5								
#5								
	25-Oct	21,000	25-Oct		S5-W-09			
	25 000	21,000	25 000		55 11 05			
#6								
I	!				!			

Total Volume Discharged (gallons)

105,000

3,000 gallons currently in tank

Note: Tank #1 designated as untreated water settling basin

Volume treated	207,000	gallons
Volume Pumped if tank #1 is full	228,000	gallons

Volume pumped through COB 10/27

210,000

## **Detection Summary**

#### Client: Arrowhead Contracting Project/Site: Atlas Missile Site Lyon County, KS

### Client Sample ID: S5-W-08

Lab Sample ID: 280-102816-2

Lab Sample ID: 280-102816-3

## Lab Sample ID: 280-102816-1

5

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Prep Type
1,2-Dichloroethene, Total	0.23	J	1.0	0.15	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	0.23	J	1.0	0.15	ug/L	1	8260B	Total/NA
o-Xylene	0.26	J	1.0	0.19	ug/L	1	8260B	Total/NA
Toluene	0.19	J	1.0	0.17	ug/L	1	8260B	Total/NA
Trichloroethene	0.26	J	1.0	0.16	ug/L	1	8260B	Total/NA

#### Client Sample ID: S5-W-09

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D Method	Prep Type
1,2-Dichloroethene, Total	0.22	J	1.0	0.15	ug/L	1	8260B	Total/NA
cis-1,2-Dichloroethene	0.22	J	1.0	0.15	ug/L	1	8260B	Total/NA
o-Xylene	0.24	J	1.0	0.19	ug/L	1	8260B	Total/NA
Trichloroethene	0.21	J	1.0	0.16	ug/L	1	8260B	Total/NA

### **Client Sample ID: TRIP BLANK**

No Detections.

This Detection Summary does not include radiochemical test results.

**TestAmerica** Denver



## DAILY TAILGATE SAFETY MEETING LOG

Date: 10/27/17	Client: USACE
Location: FORBES MISSILE SITE	Job No.: 16 118
Meeting conducted by: Doys Murphy	
Details of safety meeting presented (use back of sheet if necessary):	
Level of Protection: Mod D	
Contaminants: TCE. PEC. VC	
Physical Hazards: SLIPS TRIPS EFAIls H.	EANY Equipment operations
Pinits Points	
Other:	
PPE Pump opurations, Full harmon	s and protection contined
SPACE providures, poperators, Ladely	Sakty

Are any permits/clearances required on this day?:

### ATTENDEES:

Printed Name:

Juphy Kul KIA laylor h Seth Sel nleser, Taylor E YARBROUGH Robert Brocker Bergstrom Cale

Signature:



## SITE ENTRY LOG

## Date: 1)-27-17 Client: 4SACE

Location: FURBES MISSILE SITE

Job No.: 16-118

Name	Company	Time In	Time Out		
Doug murphy	ACE	0800	1400		
AndxBlaster	HMRI	0800	1700		
Lyte Botello	HMRI	0800	1700		
aving Wiggin	HMRI	0800	1700		
arlos Wiggin beth Schleserer	HMRI	0800	1700		
aylor Wright	HMRI	0800	1700		
	HMPI	08:00	1700		
Type Wight DAVE YARBROUGH	HMRI	08:00	1700		
Robert Brocker	HMRS ACE	06:00	1700		
Cale Beigstrom	ACI	800	1700		
	1.00.00.0000000000000000000000000000000				
	1				



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on Cl	heck	list	
Hefinable Feature of Work (DFW): H 2 power working of Sumps, trais and Thravels	Date: 10/27/17 Time: 0432			7 Subcontract No:
InspectionType (circle one): Initial Follow-up				
Item	Yes	No	NA	Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	~	1		
Is the work being performed in accordance with approved design drawings and specifications?	/	1		
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	V	1		
Is the work being performed cautiously and with acceptable levels of workmanship?	5	1		
Is equipment being operated properly?	1	1		
Is the work being performed using proper methods and procedures?	V	1		
Have any defective or damaged materials been identified?		V	-	
Are results of applicable tests, samples, and/or measurements within acceptable levels?			-	/
Is the work being performed in a safe manner and in accordance with the SSHP?	V	1		
Have pertinent records been completed or collected?	V	Ĺ		
Have any nonconformances been identified, corrected, and re-inspected?	4	1		



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on Cl	hack	liet	_	Sheet Z of Z
	on C	IECK	list		
HS Removal Disposal and resting		Date: 10/27/17		117	Subcontract No:
re parate , spent and istry	Time: 0930		,		
InspectionType (circle one): Initial Follow-up					
Item	Yes	No	NA		Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	V	1			
Is the work being performed in accordance with approved design drawings and specifications?	V	1			
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	1				
Is the work being performed cautiously and with acceptable levels of workmanship?		1			
Is equipment being operated properly?		1			
Is the work being performed using proper methods and procedures?	V	1			
Have any defective or damaged materials been identified?		V	1		
Are results of applicable tests, samples, and/or measurements within acceptable levels?		1		Put sing	iend results for
Is the work being performed in a safe manner and in accordance with the SSHP?	~	1			
Have pertinent records been completed or collected?	~	r		1	
Have any nonconformances been identified, corrected, and re-inspected?	V				
Notes: Rectioned KESKIH for Samples TANKS # 5 and #6. Resalts und Approved of Discharge.	55	-w- Ser	e8 + 1	can ho i	d 55 w-04 for Usace for



Project Name:	Project Number:	Client:
Project: ATLAS MISSILE	Contractor: ACE	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):

CHECKLIST	ОК	Not OK	N/A
1. Fuel	V		
2. Lubrication, engine oil			
3. Brakes			1
4. Tires, tracks			
5. Air systems		-	10
6. Horn	~	_	
7. Safety guards			
8. Mirrors	~ ~	<u> </u>	
9. Steering mechanism	V		
10. Cooling water			
11. Operation controls	0		
12. Lights and reflectors	V	-	-
13. Windshield wipers, defroster	V 1		
14. Backup alarm			
15. Fire extinguisher			
16. Seat belts			-
17. Filters (air, oil, fuel, hydraulic)			1
18. Lift arm and bucket		-	
19. Grab handles			
20. Steps (tread, no slip hazards)	V		-
21. Parking brake			
22. General condition			-

Remarks:

Certification

Signature of Certified Operator

AUE Company

10/27/17 Date



Project Name:	Project Number:	Client:
Project:	Contractor:	$\frac{45A cE}{\text{Contract No.:}}$ Subcontract No.
ATLAS MUSSICE Equipment Description:	HCI Model No.(s):	Serial No.(s):
Telescopic Handle	Genja	

CHECKLIST	ОК	Not OK	N/A
1. Fuel	V		
2. Lubrication, engine oil	1		
3. Brakes		C 20	
4. Tires, tracks	V		1000
5. Air systems			1
6. Horn	V		
7. Safety guards	V		
8. Mirrors	V		
9. Steering mechanism	V		
10. Cooling water			
11. Operation controls			
12. Lights and reflectors			
13. Windshield wipers, defroster		1.5.2	
14. Backup alarm			
15. Fire extinguisher			V
16. Seat belts	V		
17. Filters (air, oil, fuel, hydraulic)			
18. Lift arm and bucket		i	
19. Grab handles	V		
20. Steps (tread, no slip hazards)			
21. Parking brake	V	61.	
22. General condition			

Certification

Signature of Certified Operator

ALI Company

10/27/17 Date



Project Name:	Project Number:	Client:
FORSES MISSILE	16 118	USACE
Project:	Contractor:	Contract No.:
TTOJAAN		Subcontract No.
ATLAS MISSILE	MMR	
Equipment Description:	Model No.(s):	Serial No.(s):
Sterliny Gunzles	7200	7200

CHECKLIST	ОК	Not OK	N/A
1. Fuel			
2. Lubrication, engine oil			
3. Brakes			
4. Tires, tracks			1
5. Air systems	V		
6. Horn			
7. Safety guards	///////_/_/_/////////		
8. Mirrors			
9. Steering mechanism	1		-
10. Cooling water			
11. Operation controls	- Vr		
12. Lights and reflectors			1
13. Windshield wipers, defroster	/_	1	-
14. Backup alarm	V		-
15. Fire extinguisher			
16. Seat belts		11	-
17. Filters (air, oil, fuel, hydraulic)			
18. Lift arm and bucket			1
19. Grab handles			
20. Steps (tread, no slip hazards)			-
21. Parking brake		1	
22. General condition	1	1	1

Certification

Signature of gertified Operator

uma Company

10-27-17 Date



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project:	Contractor:	Contract No.:
ATLAS MISSILE	FIME	Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Ferbilt Var Touck	-T260-PB348	T260

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	1		
3. Brakes			
4. Tires, tracks			
5. Air systems			
6. Horn	1,	1	
7. Safety guards		100000	-
8. Mirrors			
9. Steering mechanism			
10. Cooling water			
11. Operation controls			
12. Lights and reflectors	1		
13. Windshield wipers, defroster	/		
14. Backup alarm			
15. Fire extinguisher			
16. Seat belts	/		
17. Filters (air, oil, fuel, hydraulic)		1	
18. Lift arm and bucket			1
19. Grab handles	/		
20. Steps (tread, no slip hazards)	/		-
21. Parking brake		-	-
22. General condition			-
Remarks:			
Certification Hma	12	27-17	

Signature of Certified Operator

Company

Date



## Daily Quality Control Report

REPORT NO. 11

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 10/30/17

LOCATION OF WORK: <u>Former Forbes Atlas Missile S-5, Lyon County, KS</u> DESCRIPTION: <u>Interim Remedial Action.</u>

#### WEATHER CLASSIFICATION:

No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:	
Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>	
Weather occurred during this shift that caused a partial stoppage of work	Temperature (°F): 51°F	
Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 51°F Min: 26°F	
Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:	
Explain:	Inches <u>0.00</u>	

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail. Contractors continued cleaning flame pit, continued pumping water from main sump pit, and conducted maintenance on GAC treatment system (system froze over weekend, replaced broken fittings).

HMR conducted continuous air quality monitoring while cleaning out Flame Pit. No air contaminants were detected throughout the day while working in the Flame Pit.

#### 2. Work Performed Today by Subcontractors:

Continued cleaning Flame Pit. Continued to pump water from main sump pit. Approximately 18,000 gallons was pumped from Main Sump Pit.

3. Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken).

Initial inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.

- **4.** List Type and Location of Tests Performed and Results of These Tests: None.
- 5. Verbal Instructions Received: None.
- **6.** Corrective Actions Proposed/Taken: None.
- 7. Remarks: None.
- **8.** Safety Violations Observed: None.

**9. CERTIFICATION:** I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

D. Post

Site Superintendent / Quality Control Officer



Cleaning Flame Pit.



Cleaning and removing debris from Flame Pit.

Tank	Date Filled	Quantity Pumped (gallons)	Sample Date	Data Received	Sample ID	Date Released	Treated Volume Released (gallons)	Notes:
	16-Oct	21,000	16-Oct	18-Oct	S5-W-01	18-Oct	21,000	
	19-Oct	21,000	19-Oct		S5-W-04	23-Oct	21,000	
#2	24-Oct	21,000	24-Oct	26-Oct	S5-W-07	26-Oct	21,000	
	27-Oct	18,000						
	17-Oct	21,000	17-Oct		S5-W-02	20-Oct	21,000	
	20-Oct	21,000	23-Oct	26-Oct	S5-W-05			
#3								
-								
	17-Oct	21,000	17-Oct	10_Oct	S5-W-03	19-Oct	21,000	
	23-Oct	21,000	23-Oct		S5-W-05	19-000	21,000	
#4	25-001	21,000	23-000	20-000	33-00-00			
	25-Oct	21,000	25-Oct		S5-W-08			
#5								
	25-Oct	21,000	25-Oct		S5-W-09			
#6								

Total Volume Discharged (gallons)

105,000

18,000 gallons currently in tank

Note: Tank #1 designated as untreated water settling basin

Volume treated	207,000	gallons
Volume Pumped if tank #1 is full	228,000	gallons

Volume pumped through COB 10/30 2

222,000



## DAILY TAILGATE SAFETY MEETING LOG

Date: 10/30/17	Client: 4SACE
Location: FORBES MISSILE 55	Job No.: 16-118
Meeting conducted by: Dors murphy	
Details of safety meeting presented (use back of sheet if necessary):	
Level of Protection: mod b	
Contractor	
Physical Hazards: SLIPS TRIPS & FAILS	HEAVY Equipment
Other: Rinch Points	
P.P.E. Pump operations Fall h.	acords and protection
confined space procedures Rispe	abors , ladde Safety
ain monitoring	

Are any permits/clearances required on this day?:

### ATTENDEES:

Printed Name:

Murch yler Taylor Wrig 145 D 19% in

Botello Beigstrom ale

Signature:



### SITE ENTRY LOG

Date: 10/30/17 Client: U.SACE

Location: FREBES MISSILE SS Job No.: 16-118

Name	Company	Time In	Time Out
Dila Murphy	ALF	0800	1700
Dig Murphy Tyles Weight Taylor Wright Robert Brock	HMRI	08:00	1700
Taylor Wright	HMRI	08:00	1700
Robert Brocker	HMRI	66.00	1710
Taylor Wagin	HMRI HMRI HMRI ACT	0'80	1700
And Blanton	HMRI	0:800	1700
Kyle Botello Cale Bogstron	HMRI	0800	1700
Cale Bocastion	ACT	800	1.700
Ĵ			
		-	
	4		
			1
			200



Arrowhead Contracting, Inc.

Initial/Follow-up Inspect	on çi	neck	ist	
Definable Feature of Work (DFW): #2 power washing of Sumps Traps & Tunnels		: 10	isoli	7 Subcontract No:
Traps & Tunnels	Time:			
InspectionType (circle one): Initial Follow-up				
Item	Yes	No	NA	Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1	1		
Is the work being performed in accordance with approved design drawings and specifications?	~	1		
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	~	1		
Is the work being performed cautiously and with acceptable levels of workmanship?	V	1		
Is equipment being operated properly?	V	/		
is the work being performed using proper methods and procedures?	2	1		
Have any defective or damaged materials been identified?		V	1	
Are results of applicable tests, samples, and/or measurements within acceptable levels?			V	·
Is the work being performed in a safe manner and in accordance with the SSHP?	2	1		
Have pertinent records been completed or collected?	1	1		
Have any nonconformances been identified, corrected, and re-inspected?	1			
Notes:	1			



Arrowhead Contracting, Inc.

Initial/Follow-up Inspect	onC	neck	list	
A3 Remoted , Aspisal and Testing		: 10	Isoli	7 Subcontract No:
po administration de la company	Time: 0830			
InspectionType (circle one): Initial Follow-up			1.1	
Item	Yes	No	NA	Remark
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1	1		
Is the work being performed in accordance with approved design drawings and specifications?	5	1		
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	V	/		
Is the work being performed cautiously and with acceptable levels of workmanship?	~	1		
Is equipment being operated properly?	~	1		
is the work being performed using proper methods and procedures?	1	/		
Have any defective or damaged materials been identified?		~	1	
Are results of applicable tests, samples, and/or measurements within acceptable levels?			1	
Is the work being performed in a safe manner and in accordance with the SSHP?	V	/		
Have pertinent records been completed or collected?	~	-		
Have any nonconformances been identified, corrected, and re-inspected?	V			
Notes:	-			



Project Name:	Project Number:	Client:
FORGES MISSILE	16-118	USACE
Project:	Contractor:	Contract No.: Subcontract No.
ATCAS MISSICE Equipment Description:	Model No.(s):	Serial No.(s):
Tolo Schoir Handler	Cenje.	10673495

OK	Not OK	N/A
V		
		-
	-	
	-	
~	1	
4		
		-
		-
		10
/		-
V		-
V		
		1
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	

パーフェ Signature of Certified Operator

Company

10/30/17 Date



Project Name:	Project Number:	Client:
FORGES MISSILE	16-118	USACE
Project: Aluas Missille	Contractor: ACE	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
TAKEZCHI	J28	106 59850

CHECKLIST	ОК	Not OK	N/A
1. Fuel	~		
2. Lubrication, engine oil	~		
3. Brakes	~		
4. Tires, tracks	V		
5. Air systems			10
6. Hom			
7. Safety guards	V		
8. Mirrors	~ ~		
9. Steering mechanism	V		
10. Cooling water	V		
11. Operation controls			-
12. Lights and reflectors		-	
13. Windshield wipers, defroster			
14. Backup alarm			
15. Fire extinguisher			10
16. Seat belts	V		
17. Filters (air, oil, fuel, hydraulic)	V		
18. Lift arm and bucket	/		
19. Grab handles	V		
20. Steps (tread, no slip hazards)	V		
21. Parking brake	V		
22. General condition			1

Certification

Signature of Certified Operator

ACT Company

10/30/17 Date



J

# HEAVY EQUIPMENT DAILY INSPECTION CHECKLIST

Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	LISACE
Project:	Contractor: Hmrs	Contract No.: Subcontract No.
ATLAS MISSILE Equipment Description:	Model No.(s):	Serial No.(s):
Stesling Guarler	T200	7200

CHECKLIST		ОК	Not OK	N/A
1. Fuel		1		
2. Lubrication, engine oil				
3. Brakes		1		
4. Tires, tracks				
5. Air systems		V		-
5. Horn		1	1.000	-
7. Safety guards		V		
8. Mirrors		V	-	
9. Steering mechanism		V		
10. Cooling water		V	-	
11. Operation controls				1
12. Lights and reflectors			1	1
13. Windshield wipers, defroster		4	-	-
14. Backup alarm				
15. Fire extinguisher			1	-
16. Seat belts			harris	
17. Filters (air, oil, fuel, hydraulic)				- /
18. Lift arm and bucket				11
19. Grab handles				
20. Steps (tread, no slip hazards)				-
21. Parking brake			1	-
22. General condition			1	-
Remarks:				
Certification	HMRI	10	30-1-	7
Signature of Certified Operator	Company		Date	



## Daily Quality Control Report

REPORT NO. 12

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 10/31/17

LOCATION OF WORK: <u>Former Forbes Atlas Missile S-5, Lyon County, KS</u> DESCRIPTION: <u>Interim Remedial Action.</u>

#### WEATHER CLASSIFICATION:

No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:	
Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>	
Weather occurred during this shift that caused a partial stoppage of work	Temperature (°F): 43	
Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 43°F Min: 24°F	
Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:	
Explain:	Inches <u>0.00</u>	

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail. Contractors continued cleaning flame pit, continued to pump water from main sump, continued to filter water from settling tank to treated holding tanks, and conducted maintenance on GAC treatment system (changed bag filter elements).

A sample of treated water was collected from tank #2 (sample ID S5-W-10) and from tank #4 (sample ID S5-W-11) and was submitted to the subcontract laboratory for VOC analysis by method 8260.

HMR conducted continuous air quality monitoring while cleaning out Flame Pit. No air contaminants were detected throughout the day while working in the Flame Pit.

Throughout the day continued operation of the GAC treatment system continued. At the conclusion of work approximately 21,000 gallons had been processed with a cumulative total of approximately 228,000 gallons treated. The total volume of water removed from the various basins is approximately 243,000 gallons. Refer to attached pumping data spreadsheet for updated information.

2. Work Performed Today by Subcontractors: Continued cleaning Flame Pit.

Continued pumping water from Main Sump Pit.

- 3. Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken). Initial inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.
- **4.** List Type and Location of Tests Performed and Results of These Tests: A sample of treated water was collected from tank #2 (sample ID S5-W-10) and from tank #4 (sample ID S5-W-11) and was submitted to the subcontract laboratory for VOC analysis by method 8260.
- 5. Verbal Instructions Received: None.
- **6.** Corrective Actions Proposed/Taken: None.
- 7. Remarks: None.
- **8. Safety Violations Observed:** None.

**9. CERTIFICATION:** I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

D. Kont

Site Superintendent / Quality Control Officer



Flame Pit back side (cleaned).



Front side of Flame Pit (cleaned).



```
Front of Flame Pit (cleaned).
```



## DAILY TAILGATE SAFETY MEETING LOG

Date: 10/31/17	Client: USACE
Location: FORBES MISSICE 55	Job No.: 14-118
Meeting conducted by: Ding Marphy	
Details of safety meeting presented (use back of sheet if necessary	<u>0:</u>
Level of Protection: $\mathcal{M}_{\mathcal{V}\mathcal{O}}\mathcal{O}\mathcal{O}$	
Contaminants: TCE PEC. Vi-	
Physical Hazards: SLIPS TRIPS & FAILS	Heavy Equipment operations
Pinch Parts	, , , , ,
Other:	
PPE Pump operations Full horas	is and parter tim
PPE Pump operations Fall hours contined space procedures Respero	etis ladde- safeka
air manitoring	·

Are any permits/clearances required on this day?:

### ATTENDEES:

Printed Name:

Brocker Wagir CAN lor Wright Tay Ky Bo Gale strom

Signature:



### SITE ENTRY LOG

Date: 10/31/17 Client: USACE

Location: FURBES MISSILE SS

Job No.: 16-118

Name	Company	Time In	Time Out
Digg Marchy	ALI	0800	1600
Andy Barton	ACI HMR1	0800	1600
Robert Brocker Tyles Wright Taylor Wiggin	HMRI	6080	1600
Tyler wright	Hmpi	08.00	1600
Taylor Wiggin	HMRE	08:00	1600
laylor wright	HMRI	0600	1600
Call Borgs - m		0800	1600
Cale Bergs-m	HMRI ACT	800	1600
5			
		100	
	·		-
		· · · · ·	
	· · · · · · · · · · · · · · · · · · ·		
	and the second		

Tank	Date Filled	Quantity Pumped (gallons)	Sample Date	Data Received	Sample ID	Date Released	Treated Volume Released (gallons)	Notes:
	16-Oct	21,000	16-Oct	18-Oct	S5-W-01	18-Oct	21,000	
	19-Oct	21,000	19-Oct	23-Oct	S5-W-04	23-Oct	21,000	
#2	24-Oct	21,000	24-Oct	26-Oct	S5-W-07	26-Oct	21,000	
	27-Oct	21,000	31-Oct		S5-W-10			
	17-Oct	21,000	17-Oct		S5-W-02	20-Oct	21,000	
	20-Oct	21,000	23-Oct	26-Oct	S5-W-05	27-Oct	21,000	Tank #3 is now a collection Tank
#3								
	17-Oct	21,000	17-Oct	19-Oct	S5-W-03	19-Oct	21,000	
	23-Oct	21,000	23-Oct		S5-W-06	27-Oct	21,000	
#4	31-Oct	18,000	31-Oct		S5-W-11		,	
	25-Oct	21,000	25-Oct	27-Oct	S5-W-08			
#5								
	25-Oct	21,000	25-Oct	27-Oct	S5-W-09			
#6								

Total Volume Discharged (gallons)

147,000

3,000 gallons Tank #1 and 11,000 in Tank #3

Note: Tank #1 and Tank #3 designated as untreated water settling basin

Volume treated 228,000 gallons

Volume pumped through COB 10/31

243,000

11/1/2017



Arrowhead Contracting, Inc.

Initial/Follow-up Inspect	ion C	heck	list	
Definable Easture of Work (DEW)			31/17	Subcontract No:
AND TYANUTS	Time	: v	900	
InspectionType (circle one): Initial Follow-up	2			
Item	Yes	No	NA	Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1	-		
Is the work being performed in accordance with approved design drawings and specifications?	~	1		
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	~	1		
Is the work being performed cautiously and with acceptable levels of workmanship?	~	1		
Is equipment being operated property?	~	1		
Is the work being performed using proper methods and procedures?	V	1		
Have any defective or damaged materials been identified?		V		
Are results of applicable tests, samples, and/or measurements within acceptable levels?			~	
Is the work being performed in a safe manner and in accordance with the SSHP?	V	1		
Have pertinent records been completed or collected?	V	-		
Have any nonconformances been identified, corrected, and re-inspected?	V	1		
Notes:				



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on C	neck	list		- 11. 11 - 11 - 11 - 11 - 11 - 11 - 11
H3 Remisel proposel and Testing		: 10	1311	17	Subcontract No:
	Time	n 0	900	u	
InspectionType (circle one): Initial Follow-up					
Item	Yes	No	NA		Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	~				
is the work being performed in accordance with approved design drawings and specifications?	V	-			
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	1	r			
Is the work being performed cautiously and with acceptable levels of workmanship?	V	1			
Is equipment being operated property?	V	1			
Is the work being performed using proper methods and procedures?	V	1			
Have any defective or damaged materials been identified?		L	ł		
Are results of applicable tests, samples, and/or measurements within acceptable levels?	1	1		čvi 55 .	lected Sumplies w-in and 55-w-11
Is the work being performed in a safe manner and in accordance with the SSHP?	V	ſ			
Have pertinent records been completed or collected?	V	1			
Have any nonconformances been identified, corrected, and re-inspected?	L	1			
Notes: C.14cted Sample 55-w-10 for 70 from Time 174.	m K	#2	6m	-1	Simple 55-w-1

2



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project: ATLAS MISSILE	Contractor: ACE	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Telescopic Handlie	lienie	106 73495

CHECKLIST	ОК	Not OK	N/A
1. Fuel			
2. Lubrication, engine oil			
3. Brakes	V		
4. Tires, tracks			
5. Air systems			1
6. Hom	V		
7. Safety guards			
8. Mirrors			
9. Steering mechanism			
10. Cooling water			
11. Operation controls			-
12. Lights and reflectors	V	1	-
13. Windshield wipers, defroster			
14. Backup alarm	V		
15. Fire extinguisher			1
16. Seat belts	V		
17. Filters (air, oil, fuel, hydraulic)			-
18. Lift arm and bucket			
19. Grab handles			
20. Steps (tread, no slip hazards)			-
21. Parking brake	V		
22. General condition	V		
Remarks: Certification		11	
Mink Ait		131/17	7
Signature of Certified Operator Comp	any	Date	



Project Name: Forches Missille	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
AFLAS MISSILE. Equipment Description:	Model No.(s):	Serial No.(s):
Fullezchi	728	10659850

CHECKLIST	ОК	Not OK	N/A	
1. Fuel	~		-	
2. Lubrication, engine oil				
3. Brakes	V	_		
4. Tires, tracks	V	1		
5. Air systems				
6. Hom	~			
7. Safety guards	V			
8. Mirrors	V			
9. Steering mechanism	V			
10. Cooling water	V	-		
11. Operation controls		_		
12. Lights and reflectors		_	-	
13. Windshield wipers, defroster			-	
14. Backup alarm			-	
15. Fire extinguisher			1-	
16. Seat belts	V	-	-	
17. Filters (air, oil, fuel, hydraulic)			-	
18. Lift arm and bucket				
19. Grab handles			1	
20. Steps (tread, no slip hazards)	V		-	
21. Parking brake				
	V		-	
22. General condition Remarks:			<u> </u>	

Certification

ACF Company

10/31 Date

Signature of Certified Operator



Project Name:	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Sterling Guzzle	r T200	7200

CHECKLIST		ОК	Not OK	N/A
1. Fuel		V		
2. Lubrication, engine oil		1		
3. Brakes		V		-
4. Tires, tracks		/		
5. Air systems				
6. Hom				
7. Safety guards		1		
8. Mirrors				
9. Steering mechanism				
10. Cooling water				
11. Operation controls	and mark			
12. Lights and reflectors			-	
13. Windshield wipers, defroster				-
14. Backup alarm		1	-	1
15. Fire extinguisher				1
16. Seat belts				
17. Filters (air, oil, fuel, hydraulic)				1
18. Lift arm and bucket				
19. Grab handles				-
20. Steps (tread, no slip hazards)				-
21. Parking brake			-	
22. General condition		1		1
Remarks:				
Certification	HMRI	10.3	31-17	
Signature of Certified Operator	Company		Date	



Project Name:	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
John Deere Mini-E	50 D	és é arai

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	1		-
3. Brakes	1		
4. Tires, tracks	1	-	
5. Air systems	1		
6. Horn	/		
7. Safety guards	1		
8. Mirrors	1		
9. Steering mechanism	/		
10. Cooling water		-	
11. Operation controls	1		
12. Lights and reflectors			-
13. Windshield wipers, defroster	/	-	-
14. Backup alarm	/		
15. Fire extinguisher			
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)			
18. Lift arm and bucket	/		
19. Grab handles		-	
20. Steps (tread, no slip hazards)	/		-
21. Parking brake	i		
22. General condition	/		1
Remarks:			
Certification HmR(	10-	-31-17 Date	

Signature of Certified Operator

Company



Project Name:	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Petabilt Var Truck	PB 348	T 260

ОК	Not OK	N/A	
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	1	-	
		OK         OK           /         /	

Certification

HMRI Company

10-31-17 Date

Sunature of Certified Operator

#### **TestAmerica Denver**

4955 Yarrow Street

### **Chain of Custody Record**



Arvada, CO 80002 Phone (303) 736-0100 Fax (303) 431-7171

Phone:     PO #:       (515)961-8000     16-126       Email:     WO #:       iphillips@arrowhead-usa.com     Project Name:       Project Name:     Project #:       Atlas Missile Site Lyon County, KS     28017405       Site:     SSOV#:	ested (day 24 h 09 10 Date 81/17	sample Time	Sample Type (C≖comp, G≖grab)	E-M	eiud Fileid Filtered Sample (Yes or No)	Perform Multisou (7 as or No)	- VOCs- Soil	otestam	ericainc.co		sted			Total Number of containers	Page: Pageof Job #: Preservation Code A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSOA C - Zn Acetate D - Nitric Acid E - NaHSOA G - Amchior H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA Other:	<ul> <li>&gt;</li> <li>M - Hexane</li> <li>None</li> <li>Q - AsNa/22</li> <li>P - Na2O4S</li> <li>Q - Na2S:03</li> <li>R - Na2S:03</li> <li>S - H2SO4</li> <li>T - TSP Dodecahydrate</li> <li>U - Acetone</li> <li>V - MCAA,</li> <li>W - pH 4-5</li> <li>Z - other (specify)</li> </ul>
Company:         Arrowhead Contracting         Address:       Due Date R         10981 Eicher Drive       ////////////////////////////////////	ested (day 24 h 09 10 Date 81/17	sample Time	Sample Type (C≖comp, G≖grab)	Matrix (Wevetsr, Bessid BTbTIssue, Andu	Field Filtered Sample (Yes or No)	Perform multimod (1984 of No)	- VOCs- Soil				sted				Job # Preservation Code A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchior H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA	M - Hexane N - None O - AsNa/O2 P - Na2O/4S Q - Na2S/O3 R - Na2S/O3 S - H2SO/4 T - TSP Dodecahydrate U - Acetone V - MCAA, W - pH 4-5
Arrowhead Contracting         Address:       Due Date R         10981 Eicher Drive       ////////////////////////////////////	ested (day 24 h 09 10 Date 81/17	sample Time	Sample Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1		nalysis I	Reque	sted			ther of containers	Preservation Code A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA	M - Hexane N - None O - AsNa/O2 P - Na2O/4S Q - Na2S/O3 R - Na2S/O3 S - H2SO/4 T - TSP Dodecahydrate U - Acetone V - MCAA, W - pH 4-5
City:       TAT Reque         Lenexa       State, Zip:         KS, 66219 $0^{-1}$ Phone:       PO #:         (515)961-8000       16-126         Email:       WO #:         iphillips@arrowhead-usa.com       Project #:         Project Name:       28017400         Atlas Missile Site Lyon County, KS       28017405         Site:       SSOW#:         Sample Identification       Sample         55 - W - 10       10/3	ested (day 24 h 09 10 Date 81/17	sample Time	Sample Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1	nt Molsture						ther of containers	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA	M - Hexane N - None C - AsNarO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Eodecahydrate U - Acetone V - MCAA, W - pH 4-5
City:       TAT Reque         Lenexa       State, Zip:         KS, 66219 $0^{-1}$ Phone:       PO #:         (515)961-8000       16-126         Email:       WO #:         iphillips@arrowhead-usa.com       Project #:         Project Name:       28017400         Atlas Missile Site Lyon County, KS       28017405         Site:       SSOW#:         Sample Identification       Sample         55 - W - 10       10/3	ested (day 24 h 09 10 Date 81/17	sample Time	Sample Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1	nt Moisture						ther of containers	B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA	N - None C - AsNa/O2 P - Na2O4S Q - Na2S/O3 R - Na2S/O3 S - H2SO4 T - TSP Endecahydrate U - Acetone V - MCAA, W - pH 4-5
State, Zip:	09	Sample Time	Sample Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1	nt Moisture						ther of containers	D - Nitric Acid E - NahSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ios J - Di Water K - EDTA L - EDA	P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA, W - PH 4-5
Phone:         PO #:           (515)961-8000         16-126           Email:         WO #:           iphillips@arrowhead-usa.com         Project #:           Project Name:         Atlas Missile Site Lyon County, KS           Site:         SSOW#:           Sample Identification         Sample           55 - ω - 10         10/3	09	Sample Time	Sample Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1	nt Moisture						ther of containers	F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA	R - Na2S2O3 S - H2SO4 T - TSP Eodecahydrate U - Acetone V - MCAA W - pH 4-5
(515)961-8000         16-126           Email:         WO #:           iphillips@arrowhead-usa.com         Project #:           Atlas Missile Site Lyon County, KS         28017403           Site:         SSOW#:           Sample Identification         Sample           55 - いーーノの         10/3	e Date	Time	Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1	nt Moisture						ther of containers	H - Ascorbic Acid I - Ice J - Di Water K - EDTA L - EDA	T - TSP Dodecahydrate U - Acetone V - MCAA, W - pH 4-5
Email: WO #: iphillips@arrowhead-usa.com Project Name: Atlas Missile Site Lyon County, KS 28017403 Site: SSOW#:	e Date	Time	Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Yes or	Perform MSMISIC (788 of	1 4 1	nt Moisture						ther of containers	I - Ice J - Di Water K - EDTA L - EDA	U - Acetone V - MCAA, W - pH 4-5
Project Name: Project #: Atlas Missile Site Lyon County, KS 28017401 Site: SSOW#: Sample Identification Sample 55 - W - 10 10/3	e Date	Time	Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sample (Ye	Perform MSMISIC (788 of	1 4 1	nt Moisture						ther of containen	K - EDTA L - EDA	W - pH 4-5
Atlas Missile Site Lyon County, KS     28017403       Site:     SSOW#:       Sample Identification     Sample       55 - W - 10     10/3	e Date	Time	Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sam	Perform Multimoto (198	1 4 1	nt Moisture						ther of conta		Z - other (specify)
Sample Identification Sample	Sul17	Time	Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	Field Filtered Sam	Periorm Main	1 4 1	nt Moisture						ther of or	Other:	
55-w-10 10/3	Sul17	Time	Type (C≖comp, G≖grab)	(Wowster, Besciid, Orwestaloll, BThTissue, AnAlt	18	Periorm Main	1 4 1	nt Moistur						ber		
55-w-10 10/3	Sul17	1500			Þ		256	Percer						Total Nun	Special In	structions/Note:
					П	A	J/F							X		
	1/17	NUMBER OF STREET			11	1									24h- 7 24h-	AT
THIP BLANK	11.11	1500				12	3	0	12300			1.12	Add.		24h-	TAT
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					1	_										
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Possible Hazard Identification		nown	Radiologica	al and a second s			Return	To Cli	ent [	Disp	ossed If Dosal By				ed longer than 1 hive For	month) Months
Deliverable Requested: I, II, III, IV, Other (specify)						Spec	al Instr	uctions	QC Requir	ements:						
Empty Kit Relinquished by:		Date:			Tim						Method	of Shipm				
Reinquished by: Murphy 10/3	21/12	171	E	Company		R	aceived t	y:				Date	/Time:			Company
Murphy 10/3 Relinquished by: 1 Date/Time		1.0	,	Company	-	R	eceived I	y'			-	Date	/Time:			Company
Relinquished by: Date/Time	18:			Company	-	R	eceived	y .				Date	/Time:	1.5		Company
Custody Seals Intact: Custody Seal No.:					-	C	coler Te	nperature	Cooler Temperature(s) °C and Other Remarks:				-		<u> </u>	



## Daily Quality Control Report

REPORT NO. 13

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 11/01/17

LOCATION OF WORK: Former Forbes Atlas Missile S-5, Lyon County, KS DESCRIPTION: Interm Remedial Action.

### WEATHER CLASSIFICATION:

CLASS A	No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:
CLASS B	Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>
CLASS C	Weather occurred during this shift that caused a partial stoppage of work	Temperature (°F):
CLASS D	Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 58°F Min: 32
CLASS E	Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:
OTHER	Explain:	Inches <u>0.00</u>

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail.

Contractors finished cleaning the flame pit, continued to pump water from main sump and place in the settling tank. HMR set up and checked all equipment for the Confined Space Rescue Plan and Procedure. A confined space permit was completed and entry was made into the shaft of the main sump. Entry was made to the depth needed to remove the debris at the bottom of the shaft.

The remaining debris in the pit on the south side at the top of the flame pit was washed and removed and placed into a roll-off. That pit was and also the main bay of the missile silo was power-washed. All of the sediment and debris on site, except for pending debris out of the main sump, is loaded into the roll-offs.

HMR continued using the Guzzler vac truck to pump the water out of the main chamber of the sump pit. Approximately 500 gallons were removed and there is another 1.5 ft of water until the floor of the main chamber is reached.

HMR conducted continuous air quality monitoring while cleaning the flame pit and entering the main sump shaft. No air contaminants were detected throughout the day.

- 2. Work Performed Today by Subcontractors: Finished power-washing the flame pit and upper south pit. All sediment and debris was loaded into the roll-offs. Removed debris that was blocking the main sump shaft. Continued pumping water from the main sump.
- **3.** Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken).

Follow-up inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.

- 4. List Type and Location of Tests Performed and Results of These Tests: None
- 5. Verbal Instructions Received: None
- 6. Corrective Actions Proposed/Taken: None
- 7. Remarks: None
- 8. Safety Violations Observed: None

**9. CERTIFICATION:** I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

Dy Post

Site Superintendent / Quality Control Officer



Tank	Date Filled	Quantity Pumped (gallons)	Sample Date	Data Received	Sample ID	Date Released	Treated Volume Released (gallons)	Notes:
	16-Oct	21,000	16-Oct	18-Oct	S5-W-01	18-Oct	21,000	
	19-Oct	21,000	19-Oct	23-Oct	S5-W-04	23-Oct	21,000	
#2	24-Oct	21,000	24-Oct	26-Oct	S5-W-07	26-Oct	21,000	
	27-Oct	21,000	31-Oct		S5-W-10			
	17-Oct	21,000	17-Oct	19-Oct	S5-W-02	20-Oct	21,000	
	20-Oct		23-Oct		S5-W-05	27-Oct		Tank #3 is now a collection Tank
#3		,					,	
	17-Oct	21,000	17-Oct	19-Oct	S5-W-03	19-Oct	21,000	
	23-Oct	21,000	23-Oct	26-Oct	S5-W-06	27-Oct	21,000	
#4	31-Oct	18,000	31-Oct		S5-W-11			
	25-Oct	21,000	25-Oct	27-Oct	S5-W-08	1-Nov	21,000	
#5								
#5								
	25-Oct	21,000	25-Oct	27-Oct	S5-W-09			
#6								

Total Volume Discharged (gallons)

168,000

3,000 gallons Tank #1 and 11,000 in Tank #3

Note: Tank #1 and Tank #3 designated as untreated water settling basinVolume treated228,000 gallons

Volume pumped through COB 11/1/17

243,000

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### DAILY TAILGATE SAFETY MEETING LOG

Date: 11/1/17	Client: USACE
Location: FORBES MISSILE 55	Job No.: 16-118
Meeting conducted by: Dorg Murphy	
Details of safety meeting presented (use back of sheet if necessary	<u>):</u>
Level of Protection: NOO D	
Contaminants: TCE, DEC, VC	
Physical Hazards: SLIPS, TRIPS, & FAILS	HEAVY Equipment
Operations Pinch PoinTS Other:	0,
Other:	
O.P.E. pump operations Fall,	hazards and protection
Confined space procedures Res	perators, ladder safety
dia monitoring	
/	

Signature:

### Are any permits/clearances required on this day?:

### ATTENDEES:

Printed Name:

W nr. Robert R 15 tello Taylor Wricht Taylos W.99 n From Cole Spr

N



### SITE ENTRY LOG

Date: 11/1/17 Client: USACE

Location: FORBES MISSILE SS Job No.: 16-118

Name	Company	Time In	Time Out
Doug Murphy	ACE	0800	
Tyler Whight	HMRI	08:00	
Andy Blanto,	Hm RI	08:00)	
Robert Booker	HMRI	08:00	
Kyle Botello	HMRZ	6800	
Taylor Wright	HMRI	6020	
Taylor Wigsin Cale Bergstion	HMRI	0 800	
Cale Bergstion	ACI	800	
	1		

Haz-Mat Response, Inc	Permit Required Confined
	Space Rescue Plan & Procedure
Date: 11-2-17	Tank #: Main Sump
ocation: Allen, KS	Job Number: 172171350
Physical Address: Road D	HMRI Supervisor: Tyles Wright
Customer Representative: Josh Phillip	as (ACD/Steve Fess (Safety)
Description of work: <u>Make entry</u> , pur	mp water, and clean sump.
Confined Space Supervisor: (Required)	= Wright
Confined Space Supervisor: (Required)	- Wright Wiggin
Confined Space Supervisor: (Required)	Wright Wiggin Lanton, Tyles Wright
Confined Space Supervisor: (Required) Confined Space Attendants: (Required) Confined Space Entrants: (Required)	Wright Wiggin Lanton, Tyles Wright ello, Taylor Wright
Confined Space Supervisor: (Required) Confined Space Attendants: (Required) Confined Space Entrants: (Required) Con Site HMRI Rescue Personnel: Public Emergency Response: (Required) - Method f	Wright Wiggin Lanton, Tyles Wright ello, Taylor Wright
Confined Space Supervisor: (Required) <u>Tyles</u> Confined Space Attendants: (Required) <u>Gus</u> Confined Space Entrants: (Required) <u>Andy B</u> On Site HMRI Rescue Personnel: <u>Kyle Bote</u> Public Emergency Response: (Required) - Method f Fire Departmen	Wright Wiggin Janton, Tylex Wright ello, Taylor Wright for Summoning Outside Services (Cellular)

Chemicals / Products / Material: (Check all that apply)

Gasoline	Crude Oil	H2S Hydrogen Sulfide		Lead .
Diesel	Additive (attach SDS)	Benzene		Asbestos
Ethanol	Acid / Caustic	Carbon Monoxide	1	Other: Contact Was

Required Confined Space Entry and Rescue Equipment Required: (Check all that apply)

1	4 Gas Air Monitor	1	5 Point Work Harness	1	4:1 Haul System	1	CSE signage
1	Benzene Air Monitor	1	5 Point Rescue Harness	1	Tri-Pod	1	Pulleys / Carabineers
1	SCBA	1	Retrieval Tag Line	1	Tri-Pod Retrieval Winch	1	Intrinsically Safe Lights
	Supplied Air Lines	1	Tank Ladder	1	Tri- Pod Fall Arrester	1	Emergency Air Horn
1	Air Purifying Respirator		Tank Wire Ladder	1	Rescue Packaging System	1	3/4" Rescue Rope
1	Personal Protective Equip	1	Anchor Straps	V	Ascend / Descend Equip.	V	Ventilation Fan

Rescue plan to be attached with Confined Space Entry Permit and Posted at entry location of confined space.

#### **Rescue Equipment**

- Rescue Equipment is to be thoroughly inspected for integrity and working condition prior to each work day as part of the confined space permit procedure. In the event that a piece of equipment is not in proper working condition equipment must be repaired or replaced before confined space entry is allowed.
- All Rescue equipment shall be placed at the entrance of the confined space (in a location that
  will not interfere with daily work activities and is easily accessible in the event of a rescue).

#### **Rescue Action Plan**

- Man watch attendant will alert (whistle or air horn) project team of potential emergency inside confined space.
- Entry Supervisor will assess the situation and notify facility operations and/ or public emergency
  response organizations.
- Entrant will attempt to perform self-rescue.
- Second attendant will don proper personal protective equipment (PPE) to perform rescue operations, if necessary. (If second attendant is not available Entry supervisor will co-role as Entry supervisor / Man watch attendant and original man watch attendant will become rescuer.)
- Supervisor will coordinate rescue, second attendant assumes role of rescuer, team assembles to support rescue effort.
- If entrant cannot successfully perform self-rescue, HMRI will attempt non-entry rescue, if nonentry is not successful HMRI will perform confined space entry rescue.
- Upon direction, second attendant will enter to assist in safe removal of downed worker (entrants).
- Rescuer will attach lifeline to downed worker and remove him through egress point.
- Rescue team will aid in removal of downed worker from outside the confined space.
- Rescue team will safely and rapidly decontaminate downed worker once outside the confined space.
- Rescue team or medical responders will initiate basic life support on downed workers.
- With the completion of the rescue the downed worker will be treated accordingly and taken to a
  medical facility for observation and released by a treating medical physician before being
  allowed to return to work.
- An evaluation of the rescue will be submitted by the entry supervisor to a HMRI safety manager.
- Following the evaluation the HMRI safety manager will submit a written report to the client and Health and Safety.

TO BE COPLETED EACH DAY

# Haz-Mat Response, Inc

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# Confined Space Entry Log Page1

Date: 11-2-17

Job Number: 172171350

Tank #: Main Sump

				(Record Every 2 Hours)		
Entrant Name	In Time	Out Time	LEL %	Benzene PPM		
Andy Blanton	NA			1		
Andy Blanton Tyler Wright	14:35	14:45	0%	O pan		
			4			
•						
				1		

 -		
		•
 _		

### HAZ-MAT Response, Inc.sm

			172171350
1. ISSUED TO	2. DATE		3. LOCATION
HMBI	11-1-17	Allen, KS	
4. WOF	RK TO BE DONE (IF HOT	WORK SEE SP. 8)	
Make entry 3 clean main	5. EQUIPMENT TO B	EUSED	
	5. EQUIPMENT TO B		
6. PRINT NAMES OF MEN ENTERI	NG	6. PRINT NA	MES OF WATCHMEN
A.Blanton Twight	T.W	right	K. Botello
J	B.B	over	Ty Wight
7. SPECIFIC	LINES TO BE BLANKED	O OR DISCONNECTED	
NA			
8. L	INES NOT TO BE BLANK	(ED (REASON)	
Horizontal lines/piping (connection 9. SPECIE	ted to empty pi FIC EQUIPMENT TO BE I	-OCKED OUT (SP. 4)	been cleaned)
NA - All electrical disconnected			
10. SPECI	FIC SAFETY AND WORK	ING INSTRUCTIONS	
Maintain constant communicat	ion w/ entran	+(s)	

11. NOTE: Permit Will Not Be Signed Until All Steps Are Completed!

	CHECKLIST (	EACH BLOC	K MUS	T BE IN	ITIALED)	LEN BARA	
	OPERATION		YES	NO	EXPLAIN AN	Y "RESPONSE"	MAN
a. HAS EQUIPME	ENT BEEN THOROUGHLY CLEANED, WASHED AND/OR	FLOODED?		1	Reason for e	ntru	TU
b. LOCK OUT PR	OCEDURE COMPLETE (SP. 4)			1	No values or e		Τω
c. SAFETY LIGHT	TIN USE.		1		Intrinsically	head lamos	Tw
d. CONFINED SP	ACE PURGED AND REPURGED WITH AIR		1	1	Forced air -		Tw
e. BLOWER OPE	RATING		1		Forced air -	copus	TU
f. SELF-CONTAIN	NED BREATHER APPARATUS, AIR LINE MASK, GAS MAS	SK	1	-	SCRA'S in	use	TU
g. SAFETY HARNESS TYPE (EXPLAIN)			1	1	5 point work/rescue T		Tw
h. ALL CONNECT	TIONS BLANKED OR BROKEN		1		Connections - empty/ cleaned The		d Tw
i. ARE SURROUN	NDING AREAS SAFE?		1	1	Clean work area T		TU
j. CONTINUOUS	GAS/02 MONITOR IN OPERATION?		1		Continuous m	onitoring	12
k. ATMOSPHERIC	CITEST		1		Air quality re	corded	Tal
	O2 TYPE AND METER NUMBER	ACCEPTA	ABLE RE	SULTS	RESULTS	TIME	
	Drages Xm 2500	(at I	east 19.5%)		20,9%	14:25	
	COMBUSTIBLE GAS TYPE & METER	ACCEPTA	ABLE RE	SULTS	RESULTS	BY	
	ARSF 3661		(10%)		0%	1. right	

12. NOTE: Permit Expires At End Of Shift And Is Void If Surrounding Conditions Change During The Shift.

13A. E	NTRY	13B. EXIT (FINAL)	
TIME	INITIALS	TIME	INITIALS
14:35	TW	14:45	Tw

14. STATEMENT: I Have Read The Entire Permit, Reviewed SP-1 And Checked All Entries

A. SIGNATURE(S) MEN ENTERING CONFINED SPACE	B. SIGNATURE(S) WATCHMEN
Thesh	This ses
	1 kills in head
	C. SIGNATURE(S) SUPERVISOR(S)
DISTRIBUTION INSTRUCTIONS	TIA

1. RETURN ORIGINAL TO SAFETY DIRECTOR IMMEDIATELY! Bescue Company # Hmp 1

2. POST DUPLICATE ON OR NEAR CONFINED SPACE AND RETURN TO SAFETY DIRECTOR UPON COMPLETION.



Project Name: Forbes missille	Project Number: 16-118	Client: USACE
Project: ATLAS MISSILE	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Starling Guzzler	T200	TZOU

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	1		
3. Brakes	1		
4. Tires, tracks	1		
5. Air systems	1		
5. Horn	1		
7. Safety guards	/		
8. Mirrors	1		
9. Steering mechanism	1		
10. Cooling water	1		
11. Operation controls			
12. Lights and reflectors	/		
13. Windshield wipers, defroster			
14. Backup alarm			
15. Fire extinguisher	/		
16. Seat belts	1		
17. Filters (air, oil, fuel, hydraulic)			
18. Lift arm and bucket	6		1
19. Grab handles	1		
20. Steps (tread, no slip hazards)			
21. Parking brake			
22. General condition	/		
Remarks: Certification			
- Idleg HmRI		M 11-	1.17
Signature of Certified Operator Compa	any	Date	

Date



Project Name:	Project Number:	Client:
FORGES MISSILE	16-118	USALE
Project: ATLAS MISSILE	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Reterbilt Vac Truck	PB348	T260

CHECKLIST	ОК	Not OK	N/A
1. Fuel			
2. Lubrication, engine oil			
3. Brakes		-	
4. Tires, tracks			
5. Air systems			
6. Hom	1		
7. Safety guards			
8. Mirrors			
9. Steering mechanism			
10. Cooling water	1		
11. Operation controls		-	
12. Lights and reflectors			
13. Windshield wipers, defroster			
14. Backup alarm	1		
15. Fire extinguisher	6		-
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)	1		1
18. Lift arm and bucket			1
19. Grab handles			
20. Steps (tread, no slip hazards)		-	
21. Parking brake			
22. General condition	1		
Remarks:			

Signature of Certified Operator

HMR1 Company

Date

11-1-17



Project Name:	Project Number:	Client:
FURBES MISSILE	16-118	USACE
Project: ATLAS MISSILE	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
John Deere Mini Ex	500	E63

CHECKLIST		ОК	Not OK	N/A
1. Fuel		1	•	
2. Lubrication, engine oil		1		1
3. Brakes		1		
4. Tires, tracks		1		
5. Air systems		1		
6. Hom		/		
7. Safety guards		1		
8. Mirrors				
9. Steering mechanism		/		
10. Cooling water		1		
11. Operation controls		1		
12. Lights and reflectors		1		
13. Windshield wipers, defroster				
14. Backup alarm				
15. Fire extinguisher		1		
16. Seat belts		1		
17. Filters (air, oil, fuel, hydraulic)		1		
18. Lift arm and bucket		1		
19. Grab handles		I.		
20. Steps (tread, no slip hazards)				
21. Parking brake				
22. General condition				
Remarks:				
Certification	HANRI	11-	1.17	
Signature of Certified Operator	Company		Date	



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project: ATLAS MISSILE	Contractor: ACT	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Filescopic HANDLE	2 GENIE	106 73495

CHECKLIST	ОК	Not OK	N/A
1. Fuel	V		
2. Lubrication, engine oil	-		
3. Brakes			
4. Tires, tracks		_	
5. Air systems			L
6. Horn	V		
7. Safety guards	V		
8. Mirrors			
9. Steering mechanism	V		
10. Cooling water			
11. Operation controls	V		
12. Lights and reflectors			
13. Windshield wipers, defroster		_	1
14. Backup alarm			
15. Fire extinguisher			~
16. Seat belts	-		
17. Filters (air, oil, fuel, hydraulic)	/		
18. Lift arm and bucket		_	
19. Grab handles			
20. Steps (tread, no slip hazards)	V		
21. Parking brake	~		
22. General condition			

Certification

Signature of Certified Operator

ALE Company

11/11 Date



Project Name:	Project Number:	Client:
FORBES MISSILE	16-118	USACE
Project: ATLAS MIBSILE	Contractor: ACE	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
TAKEZUITE	TL8	10659850

CHECKLIST	ОК	Not OK	N/A
1. Fuel			
2. Lubrication, engine oil			
3. Brakes			
4. Tires, tracks			
5. Air systems			
6. Horn			
7. Safety guards			
8. Mirrors			
9. Steering mechanism			)
10. Cooling water			
11. Operation controls			
12. Lights and reflectors			
13. Windshield wipers, defroster			
14. Backup alarm			
15. Fire extinguisher			
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)			
18. Lift arm and bucket	ø		
19. Grab handles			_
20. Steps (tread, no slip hazards)			
21. Parking brake			
22. General condition			
Remarks:			
Certification Act		11/17	

Signature of Certified Operator

Company

11 11 /1 /7 Date



Arrowhead Contracting, Inc.

Initial/Follow-up Inspecti	on Ch	neck	ist		and the second
Definable Feature of Work (DFW): H2 power washing of sumps MAPS & Tunnels		11	111	Subcontract No:	
TRAPS & Hennels	Time	: 0	1900	,	
InspectionType (circle one): Initial Follow-up					
Item	Yes	No	NA		Remarks
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?		/			
Is the work being performed in accordance with approved design drawings and specifications?	1	/			
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	V				
Is the work being performed cautiously and with acceptable levels of workmanship?	V	/			
Is equipment being operated properly?	V	-			
Is the work being performed using proper methods and procedures?	L	/			
Have any defective or damaged materials been identified?		V	-		
Are results of applicable tests, samples, and/or measurements within acceptable levels?			5	/	
Is the work being performed in a safe manner and in accordance with the SSHP?	V	-			
Have pertinent records been completed or collected?	V	ł			
Have any nonconformances been identified, corrected, and re-inspected?	V	1			
Notes:	-	-		-	



Arrowhead Contracting, Inc.

Initial/Follow-up Inspect	ion C	heck	list		
Definable Feature of Work (DFW): H3 Removal insposal and Testing			lilin	Subcontract No:	
Testing	Time	: d	900		
InspectionType (circle one): Initial Follow-up					
ltem	Yes	No	NA	Remarks	
Is the work being performed in accordance with the applicable section(s) of the subcontract specifications?	~	/			
is the work being performed in accordance with approved design drawings and specifications?	V	/			
Is the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	5	1			
Is the work being performed cautiously and with acceptable levels of workmanship?	1	/			
Is equipment being operated properly?	V	/			
Is the work being performed using proper methods and procedures?	V	/			
Have any defective or damaged materials been identified?		V	1		
Are results of applicable tests, samples, and/or measurements within acceptable levels?	1	/			
Is the work being performed in a safe manner and in accordance with the SSHP?	>	/			
Have pertinent records been completed or collected?	V	-			
Have any nonconformances been identified, corrected, and re-inspected?	L	/			
Notes:	-	-			



### Daily Quality Control Report

REPORT NO. <u>14</u>

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 11/02/17

LOCATION OF WORK: Former Forbes Atlas Missile S-5, Lyon County, KS DESCRIPTION: Interm Remedial Action.

#### WEATHER CLASSIFICATION:

CLASS A	No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:
CLASS B	Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>
CLASS C	Weather occurred during this shift that caused a partial stoppage of work	Temperature ( <sup>°</sup> F):
CLASS D	Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 55°F Min: 38
CLASS E	Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:
OTHER	Explain:	Inches <u>0.00</u>

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail.

Contractors continued to pump water from main sump and place in the settling tank. HMR set up and checked all equipment for the Confined Space Rescue Plan and Procedure. A confined space permit was completed and entry was made into the shaft of the main sump and the chambers.

HMR continued using the Guzzler vac truck to pump the water out of the main chamber and lower chamber of the sump pit. Approximately 19,000 gallons were removed. The hatch between the main and lower chamber was functioning and there was access to the lower chamber. All of the water in the main sump and most of the water in the lower chamber has been removed. Sediment removal and power-washing is what remains to be completed in the lower chamber.

HMR conducted continuous air quality monitoring while entering the main sump shaft and both chambers. No air contaminants were detected throughout the day.

- 2. Work Performed Today by Subcontractors: Sediment and debris was pulled out of the main sump chamber. All sediment and debris was loaded into the roll-offs. Continued pumping water from the main sump and lower chamber.
- 3. Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken).

Follow-up inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.

- 4. List Type and Location of Tests Performed and Results of These Tests: None
- 5. Verbal Instructions Received: None
- 6. Corrective Actions Proposed/Taken: None
- 7. Remarks: None
- 8. Safety Violations Observed: Non

**9. CERTIFICATION:** I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

Dy Post

Site Superintendent / Quality Control Officer

Tank	Date Filled	Quantity Pumped (gallons)	Sample Date	Data Received	Sample ID	Date Released	Treated Volume Released (gallons)	Notes:
	16-Oct	21,000	16-Oct	18-Oct	S5-W-01	18-Oct	21,000	
	19-Oct	21,000	19-Oct	23-Oct	S5-W-04	23-Oct	21,000	
#2	24-Oct	21,000	24-Oct	26-Oct	S5-W-07	26-Oct	21,000	
	27-Oct	21,000	31-Oct		S5-W-10			
	17-Oct	21,000	17-Oct	19-Oct	S5-W-02	20-Oct	21,000	
	20-Oct	21,000	23-Oct		\$5-W-05	27-Oct		Tank #3 is now a collection Tank
#3		,					,	
ц. 	17-Oct	21,000	17-Oct	19-Oct	S5-W-03	19-Oct	21,000	
	23-Oct	21,000	23-Oct	26-Oct	S5-W-06	27-Oct	21,000	
#4	31-Oct	18,000	31-Oct		S5-W-11			
	25-Oct	21,000	25-Oct	27-Oct	S5-W-08	1-Nov	21,000	
#5								
	25.0.1	21.000	25.0.1	27.0	CE 144 00			
	25-Oct	21,000	25-Oct	27-Oct	S5-W-09			
#6								

Total Volume Discharged (gallons)

168,000

Note: Tank #1 and Tank #3 designated as untreated water settling basinVolume treated228,000 gallons

Volume pumped through COB 11/2/17

11/3/2017

(11-1-17) 3,000 gallons Tank #1 and 11,000 in Tank #3

(11-2-17) 18,000 gallons Tank 1# and 16,000 in Tank#3

O

262,000

	á	OW	ETS	
1	Ý			6
	L	1.	-	
1		-	1	3
	.6	CK G	Hier	

#### DAILY TAILGATE SAFETY MEETING LOG

Date:	11/2/17
Location:	Forbes Missile
Meeting con	nducted by: Cale Bergstrom

Client:	USACE	
Job No.: _	16-118	-

Details of safety meeting presented (use back of sheet if necessary):

Contaminants:	TCE,	DCE,	VC				
Physical Hazards:							
Shipe	trips	falls	fo	994 (	condition	15/U	vet
Other: HRayy	Egy	pment'	, C	on fined	Spac	e' ±	intry,
pinch "	points	· ,	fail	haza	rds,	10	older
safet.		1			. /		a service of the

Are any permits/clearances required on this day?:

#### ATTENDEES:

Printed Name:

rom Cale BERGS Taylor Wia Wr. Tay or sh + Kyle Ostello k

Signature:



#### SITE ENTRY LOG

ate: <u>112</u> Client: <u>USACE</u> ocation: <u>Forbes</u> Job No.: <u>16-118</u>				
Name	Company	Time In	Time Out	
Call Bergstrom	ACI	800	1700	
Taylor Wagin	HMRT	0800	1700	
Andy Blanton	HMRI	0800	1200	
LAYNE Krets	HART	0800	1600	
Taylor Wright	HMRI	0800	1200	
yle Botulo	HMRI	0030	1200	
ye Botulo Dou, Ronk Tyles Chight	ACT	0800	1700	
Tyler Why Ht	4me;	0080	1700	
U U				
	······································	-		
	and the second			

### HAZ-MAT Response, Inc.sm

	and the second sec		1R2171350
1. ISSUED TO	2. DATE		3. LOCATION
HMRI	11-2-17	Allen.KS	
	ORK TO BE DONE (IF HOT W	ORK SEE SP. 8)	
Make entry, dean aut ,	main sump.		
<b>"</b>	5. EQUIPMENT TO BE L	SED	
CSE TE 129/Tripod. W	linch, 4:1 Pulley, 1	lescue Geas	
6. PRINT NAMES OF MEN ENTERIN	and the second s		MES OF WATCHMEN
A. Blanton L. Kroka	T.W	right	L. Kreter
	K.B	otello	T. Wiggin
7. SPECI	FIC LINES TO BE BLANKED C	R DISCONNECTED	
All lines that can to main	LINES NOT TO BE BLANKE		ashed
	EINES NOT TO BE BLANKED	(REASON)	
NA 9. SPE	CIFIC EQUIPMENT TO BE LOO	KED OUT (SP. 4)	
No electrical or values t	o lock out	201 (100 (100 (100 (100 (100 (100 (100 (	
	CIFIC SAFETY AND WORKIN	G INSTRUCTIONS	
Maintain constant commu	inication wy ent	cats	
11. NOTE: Permi	t Will Not Be Signed Unti	All Steps Are Comp	leted!

a second a second	CHECKLIST	(EACH BLOC	CK MUST	BE INIT	'IALED)	Service States	
and the second	OPERATION		YES	NO	EXPLAIN AN	IY "RESPONSE"	MAN
a. HAS EQUIPM	MENT BEEN THOROUGHLY CLEANED, WASHED AND/OF	R FLOODED?		1	Reason for	entry	AB
b. LOCK OUT F	PROCEDURE COMPLETE (SP. 4)			1	NA		ABRE
. SAFETY LIGH	HT IN USE.		1		Intrasically	safe	AULE
d. CONFINED S	SPACE PURGED AND REPURGED WITH AIR		1		Copus fac		HB FK
e. BLOWER OP	PERATING		1		Coous fan		ABK
f. SELF-CONTAINED BREATHER APPARATUS, AIR LINE MASK, GAS MASK		SK	1		SCRA in use		ABLK
g. SAFETY HARNESS TYPE (EXPLAIN			1		5 point work kes cue		ABLE
h. ALL CONNEC	CTIONS BLANKED OR BROKEN			¥	NA		ABLE
. ARE SURROL	JNDING AREAS SAFE?		1		Clean wor	k area	AB Le
j. CONTINUOU	S GAS/02 MONITOR IN OPERATION?		1		Constant 1	monitoring	A8 12
k. ATMOSPHER	RIC TEST		1		Air quality	is recorded	ABK
	O2 TYPE AND METER NUMBER	ACCEPT	ABLE RES	SULTS	RESULTS	TIME	
	Drages Km 2500	(at	least 19.5%)		20.9%	8:25	
	COMBUSTIBLE GAS TYPE & METER	ACCEPT	ABLE RES	SULTS	RESULTS	BY	
,	ARSF 3661	1.5	(10%)		0%	Wight	

12. NOTE: Permit Expires At End Of Shift And Is Voic If Surrounding Conditions Change During The Shift.

13A. ENTRY		13B. EXIT (FINAL)			
TIME	INTIALS	TIME	INITIALS		
8:39/10:06/ N-25	ABIN	9:18/11:15/13:25	AB LE		

23 14. STATEMENT: I Have Read The Entire Permit, Reviewed SP-1 And Checked All Entries

A. SIGNATURE(S) MEN ENTERING CONFINED SPACE	B. SIGNATURE(S) WATCHMEN			
And Boston Inde Hits	Tutility ges the			
	Motor Olate			
DISTRIBUTION INSTRUCTIONS	C. SIGNATURE(S) SUPERVISOR(S)			



Arrowhead Contracting, Inc.

Initial/Follow-up Inspect	on C	heck	list	Sheet o
Pefinable Feature of Work (DFW): #2 Power washing Sumps/traps/tumpls	Date	" <u>l</u> l	. 1	7 Subcontract No: Forbes Atlas
InspectionType (circle one): Initial Follow-up	-			
Item	Yes	No	NA	Remarks
s the work being performed in accordance with the applicable section(s) of the subcontract specifications?	1	-		
s the work being performed in accordance with approved design drawings and specifications?	-	-		
s the work being performed in accordance with approved work plans (e.g. CQCP, EPP, SAMP/QAPP)?	-			
s the work being performed cautiously and with acceptable levels of workmanship?	1	1		
s equipment being operated property?	-	1		
s the work being performed using proper methods and procedures?	1			
lave any defective or damaged materials been identified?		1		
vre results of applicable tests, samples, and/or measurements within acceptable levels?			-	
s the work being performed in a safe manner and in accordance with the SSHP?	1	1		
lave pertinent records been completed or collected?	-	-		
lave any nonconformances been identified, corrected, and re-inspected?		1	-	
lotes:	-	-		



Arrowhead Contracting, Inc.

Initial/Follow-up Inspect	on C	heck	list		
Remo Val, disposal and testing		• n	12/17	Subcontract	No:
Removal, disposal and testing	Time	:	830	Forbes	Atles
nspectionType (circle one): Initial					
Item	Yes	No	NA	Rem	narks
s the work being performed in accordance with the applicable section(s) of the subcontract pecifications?	-	-			
s the work being performed in accordance with approved design drawings and pecifications?	-	1			
s the work being performed in accordance with approved work plans (e.g. CQCP, EPP, AMP/QAPP)?	-				
the work being performed cautiously and with acceptable levels of workmanship?	1	1			
s equipment being operated properly?	1	1			
the work being performed using proper methods and procedures?	~				
lave any defective or damaged materials been identified?		L	-		
re results of applicable tests, samples, and/or measurements within acceptable levels?	-	-			
the work being performed in a safe manner and in accordance with the SSHP?	-				
lave pertinent records been completed or collected?	1				
ave any nonconformances been identified, corrected, and re-inspected?		F	-		



Project Name:	Project Number:	Client:
Project:	Contractor:	Contract No.: Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Stating Guzzler	T 200	T 200

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	1		
3. Brakes	1		
4. Tires, tracks	1		
5. Air systems	1		
6. Horn	1		
7. Safety guards			
8. Mirrors	1		
9. Steering mechanism			
10. Cooling water	1		
11. Operation controls			
12. Lights and reflectors			
13. Windshield wipers, defroster			
14. Backup alarm	Í,		
15. Fire extinguisher			
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)	1		
18. Lift arm and bucket	e		1
19. Grab handles	· /		
20. Steps (tread, no slip hazards)	1		
21. Parking brake	1		
22. General condition	1		

Remarks:

Certification

·

Signature of Certified Operator

HMR | Company

<u>11-2-17</u> Date



Project Name:	Project Number:	Client:	
Project:	Contractor:	Contract No.: Subcontract No.	
Equipment Description:	Model No.(s):	Serial No.(s):	
Peterbilt Vac Tauck	T 260/PB348	7260	

CHECKLIST	ОК	Not OK	N/A
1. Fuel	V		
2. Lubrication, engine oil	1		
3. Brakes	1		
4. Tires, tracks	1		
5. Air systems	1		
6. Horn	V		
7. Safety guards	<ul> <li>✓</li> </ul>		
8. Mirrors	1		
9. Steering mechanism		1	
10. Cooling water	V		
11. Operation controls	1		
12. Lights and reflectors	1		
13. Windshield wipers, defroster	1		
14. Backup alarm	1		
15. Fire extinguisher	1		
16. Seat belts			
17. Filters (air, oil, fuel, hydraulic)			
18. Lift arm and bucket			1
19. Grab handles	1		
20. Steps (tread, no slip hazards)			
21. Parking brake			
22. General condition	1		

Remarks:

Certification

Signature of Certified Operator

HMR1 Company

11.2-17 Date



Project Name:	Project Number:	Client:
Forbes Mussile	16-118	USACE
Project:	Contractor:	Contract No.:
Atlas Missile	ACI	Subcontract No.
Equipment Description:	Model No.(s):	Serial No.(s):
Takettahi	TL 8	10 659850

CHECKLIST	ОК	Not OK	N/A
1. Fuel	1		
2. Lubrication, engine oil	-		
3. Brakes	-		
4. Tires, tracks	L		
5. Air systems			-
6. Horn	-		
7. Safety guards	-		
8. Mirrors	1		
9. Steering mechanism	-		1
10. Cooling water	1		
11. Operation controls	1		
12. Lights and reflectors	~		
13. Windshield wipers, defroster	-		
14. Backup alarm	-		
15. Fire extinguisher			-
16. Seat belts	1		
17. Filters (air, oil, fuel, hydraulic)	-		1.
18. Lift arm and bucket	-		
19. Grab handles	-		
20. Steps (tread, no slip hazards)	~		
21. Parking brake	/		
22. General condition	L		

Remarks:

Certification

Signature of Certified Operator

Company

11/2/17 Date



Project Name: Forbes	Project Number:	Client: USACE		
Project: Atlas Missie	Contractor: ACL	Contract No.: Subcontract No.		
Equipment Description:	Model No.(s):	Serial No.(s):		
T-handler	Genie	106 73495		

CHECKLIST	ОК	Not OK	N/A
1. Fuel	r		
2. Lubrication, engine oil	~		
3. Brakes	-		
4. Tires, tracks	L		
5. Air systems			-
6. Horn	r		
7. Safety guards	-		
8. Mirrors	-		
9. Steering mechanism	4	2	
10. Cooling water	~		
11. Operation controls	1	1	
12. Lights and reflectors	~		
13. Windshield wipers, defroster	-		-
14. Backup alarm	-		
15. Fire extinguisher			-
16. Seat belts	-		5.0.0
17. Filters (air, oil, fuel, hydraulic)	-		
18. Lift arm and bucket	e	1	
19. Grab handles	-		
20. Steps (tread, no slip hazards)	-		
21. Parking brake	-		
22. General condition	-		

Certification Putur

11/2/17 Date

Signature of Certified Operator

Company



### Daily Quality Control Report

REPORT NO. 15

CONTRACT NO. W912DQ-16-D-3006 Task Order 0002

Date: 11/03/17

LOCATION OF WORK: Former Forbes Atlas Missile S-5, Lyon County, KS DESCRIPTION: Interm Remedial Action.

#### WEATHER CLASSIFICATION:

CLASS A	No interrruptions of any kind from weather conditions occurring on this or previous shifts	Classification:
CLASS B	Weather occurred during this shift that caused a complete stoppage of all work	Class <u>A</u>
CLASS C	Weather occurred during this shift that caused a partial stoppage of work	Temperature (°F):
CLASS D	Weather overhead excellent or suitable during shift. Work completely stopped due to results of previous adverse weather	Max: 46°F Min: 35
CLASS E	Weather overhead excellent or suitable during shift but work partially stopped due to previous adverse manner	Precipitation:
OTHER	Explain:	Inches <u>0.00</u>

#### 1. Work Performed Today by Kemron/Arrowhead JV:

Contractors arrived on site at 0800. Upon arrival Arrowhead conducted the Daily Tailgate Safety Meeting with all JV staff and subcontract personnel. Inspection of equipment was completed prior to beginning operations. Refer to the attached meeting and inspections logs for additional detail.

Contractors continued to pump water from the lower chamber of the main sump and place in the settling tank. HMR set up and checked all equipment for the Confined Space Rescue Plan and Procedure. A confined space permit was completed and entry was made into the shaft of the main sump and the chambers.

HMR continued using the Guzzler Vac truck to pump the water out of the lower chamber of the sump pit. Approximately 8,000 gallons were removed. The total amount of water pumped for the project was 270,000 gallons. All of the water in the main sump and lower chamber were removed. All of the sediment in the main chamber and lower chamber was removed. Power-washing in the upper and lower chamber of the main sump was completed. All pumping activities and all power-washing activities were completed.

HMR conducted continuous air quality monitoring while entering the main sump shaft and both chambers. No air contaminants were detected throughout the day.

- Work Performed Today by Subcontractors: Sediment and debris was pulled out of the lower sump chamber. All sediment and debris was loaded into the roll-offs. Completed pumping water from the main sump and lower chamber. Dewatered the main sediment roll-off.
- 3. Type and Results of Inspection: (Include Satisfactory Work Completed or Deficiencies with Action to be taken). Follow-up inspections for Definable Features of Work #2 and #3 were conducted, see

Follow-up inspections for Definable Features of Work #2 and #3 were conducted, see attached documents for results of inspections. No deficiencies were noted or found.

- 4. List Type and Location of Tests Performed and Results of These Tests: None
- 5. Verbal Instructions Received: None
- 6. Corrective Actions Proposed/Taken: None
- 7. Remarks: None
- 8. Safety Violations Observed: Non

**9. CERTIFICATION:** I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this day by the contractor and each subcontractor and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specifications, except as may be noted above.

Dy Post

Site Superintendent / Quality Control Officer

# HAZ-MAT Response, Inc.sm

							1R21713	350
	1. ISSUED T	<b>)</b>	2. DAT	E	1000 (1000) 1000 (1000)		. LOCATION	
HMRI			11-3-17			len,KS		
		4. WO	RK TO BE DONE (IF	F HOT W	ORK SEE	SP. 8)		
Finish c	leaning	main sum	P					
	<u> </u>		5. EQUIPMENT	TO BE L	ISED			
CSE Tr	129. Tr	iod, winch	Rescue G	ALGE				
	PRINT NAME	S OF MEN ENTERING				6. PRINT NAMES	OF WATCHMEN	
A. Blanton		Ty Wright		T.W	right	-	C Wiseman	, · · · · · · · · · · · · · · · · · · ·
Twright		14 congris		KB	stalla		(a 1) inclin	
<u> </u>		7. SPECIFI	C LINES TO BE BL	ANKED C	DR DISCO	NNECTED	G. Cergyin	
Main a	-0		· /		Syst			
<u>Tain sur</u>	np is no	and the second	INES NOT TO BEI					
<u> </u>						<b>1.</b>	1	
NA								
		9. SPECI	FIC EQUIPMENT T	O BE LO	CKED OL	it (SP. 4)	<u></u>	
NA								
		10. SPEC	IFIC SAFETY AND	WORKIN	IG INSTR	UCTIONS		
Maintain c	ommunica	tion w/ entr	ants					
							17	
14		11. NOTE: Permit	-			-	9a!	
		and the second	KLIST (EACH BLOC	College Stranger and Stranger	West of the second second second			MAN
		ERATION	<u></u>	YES	NO	neles de al Sel State Constant de la des constantes est a la faire	NY "RESPONSE"	ENTERING Mary
		ILY CLEANED, WASHED A	ND/OR FLOODED?				needs cleane	d wright
b. LOCK OUT PROCE		E (SP. 4)				HMRI 1000		WAB IC
c. SAFETY LIGHT IN					<u> </u>	Intrinsically	sate	WABTS
d. CONFINED SPACE		PURGED WITH AIR				copus in us		VIARTa
e. BLOWER OPERAT		RATUS, AIR LINE MASK, G				Copus in use	2	L. Deta
g. SAFETY HARNESS				5		scba's 5 paint		ALAR TO
h. ALL CONNECTION		BROKEN	*****			Safe area		LAB TE
i. ARE SURROUNDIN					1	Clean was		In Aber
j. CONTINUOUS GAS	5/02 MONITOR IN	OPERATION?				Constant m		CABE
k. ATMOSPHERIC TE						Air is reco		WABE
	O2 TYPE /	AND METER NUMBER	ACCEPT.	ABLE RE	SULTS	RESULTS	TIME	B. T.L
	N.G	X- 2500	(at	least 19.5%	)	20.9%	8:42	Bump Test
	COMPLETIN	SLE GAS TYPE & MET		an a	digi tarkatara	RESULTS	BY	11-3 8:24 A
	ARST- 36			(10%)		0%	Wright_	
12. N	OTE: Permit	Expires At End Of	Shift And Is Void	c If Surr	ounding	Conditions Cha	ange During The	Shift.
	13	A. ENTRY		43.0		13B. EX	T (FINAL)	
	TIME		INTIALS		a kata a	TIME		INITIALS
<u> </u>		- 2	J.AB	12:1	01	1792		ZAA TU
jsta	90/17:15	· · · · · · · · · · · · · · · · · · ·			-no	1CNC FOAB		
		MENT: I Have Rea		rmit, Re	viewed	The state of the second state of the second state of the state	and the contraction and provide the state of the state of the state of the	
A. SIGN	ATURE(S) MEN	ENTERING CONFINE	D SPACE			B. SIGNATURE	(S) WATCHMEN	
st y		And Hon	the	-7	The	=	that a	(ha
- Althan				11	La	Johnto	Pento.	5
- yur p				10	ℼ≕ℒ	C. SIGNATURE	BUPERVISOR(S)	
DISTRIBUTION	<b>I INSTRUCT</b>	IONS		38008383		74	,	
	•	ni Uli K			_lyl_b	JA ,		
1 BETL	IRN ORIGINA	L TO SAFETY DIRE	CTOR IMMEDIAT	FELY! F	Rescue	ompany #	SAR 1	

2. POST DUPLICATE ON OR NEAR CONFINED SPACE AND RETURN TO SAFETY DIRECTOR UPON COMPLETION.

TO BE COPLETED EACH DAY

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# Haz-Mat Response, Inc

Confined Space Entry Log Page1

Date: 11- 3-17
Job Number: 18217-1350

Tank#: Main Sump

			(Record Every 2 Hours)		
Entrant Name	<u>In Time</u>	Out Time	LEL %	Benzene PPM	
A. Blanton Ty. Wright T. Wright	9:00	12:32	0%	0 ppm	
Ty. Wright	9:00	12:10	0%	Oppm Oppm Oppm	
T. Wright	12:15	15:35	0% 0%	O DOM	
	1	· 1			
-				· ·	