

**JUNE 2013 MEC SURFACE CLEARANCE SUMMARY
VISITOR CENTER AND SITES 5/12
NASA WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA**

Introduction

This document been prepared by Tetra Tech, Inc. (Tetra Tech) for National Aeronautics and Space Administration (NASA) Wallops Flight Facility (WFF) under Contract No. NAS5-01080, Task Order 08-22-2013. This summary provides documentation of a munitions and explosives of concern (MEC) surface clearance conducted by Tetra Tech at the NASA WFF Visitor Center and Sites 5/12. Field activities for this event were conducted from June 17 – 20, 2013. The work was conducted in accordance with the following work documents:

- *Work Plan for Visitor Center UXO Surface Sweep at NASA WFF (Tetra Tech, 2013a)*
- *Work Plan for Sites 005 & 012 UXO Surface Sweep at NASA WFF (Tetra Tech, 2013b)*

Figures, MDAS certification form, daily field reports, and a photo log are included in this document.

Visitor Center, Detector-Aided Surface Survey - 6/17/13 thru 6/19/13

- Site Set-up included the placement of the type II storage magazine inside the site storage shed. The storage shed was grounded in accordance with ATF regulations.
- Donor Explosives were shipped to and received by NASA WFF personnel (qualified to handle explosives material) for storage.
- A detector-aided surface survey was performed by 3 qualified UXO technicians within the area of concern (vacant land adjacent to the Visitor Center).
- No Munitions and Explosives of Concern (MEC) or Material Potentially Presenting an Explosive Hazard (MPPEH) was recovered on the surface during this investigation.
- A total of 60 items were recovered from the Visitor Center during the June 2013 surface clearance. All 60 items were identified as fragments from 20mm projectiles and were certified as Material Documented as Safe (MDAS).
- The highest concentration of recovered MDAS items were located in or near a depression located on the eastern portion of the site. It appears as though drainage/surface run-off flows in this area which contributes to erosion.
- High concentrations of additional anomalies were detected below the surface throughout the entire site.
- All MDAS items were dual inspected and secured in a sealed drum.

Site 5&12, Detector-Aided Surface Survey - 6/20/13

- A detector-aided surface survey was performed by 3 qualified UXO technicians in areas where large cement “crane training weights” had been removed for construction purposes.
- During the Sites 5/12 June 2013 surface clearance, 2 MEC items recovered
 - (quantity - 1) 20mm projectile with fuze
 - (quantity - 1) 30mm projectile with fuze
- A total of 17 MDAS items were recovered from Site 5/12. All MDAS items were identified as partial 20mm projectiles and projectile fragments.
- High concentrations of additional anomalies were detected below the surface throughout the entire site.
- All MDAS items were dual inspected and secured in a sealed drum.
- Notification was made and Demo operations were performed on the two MEC items. Donor charges were requested and delivered to Sites 5/12 by NASA WFF personnel. MEC items were destroyed and all donor charges were consumed during the demo operations.
- All secured MDAS was certified as free and clear of any explosive hazard. The sealed MDAS container was turned over to NASA base personnel for final disposition.

Demobilization of UXO field team and equipment.

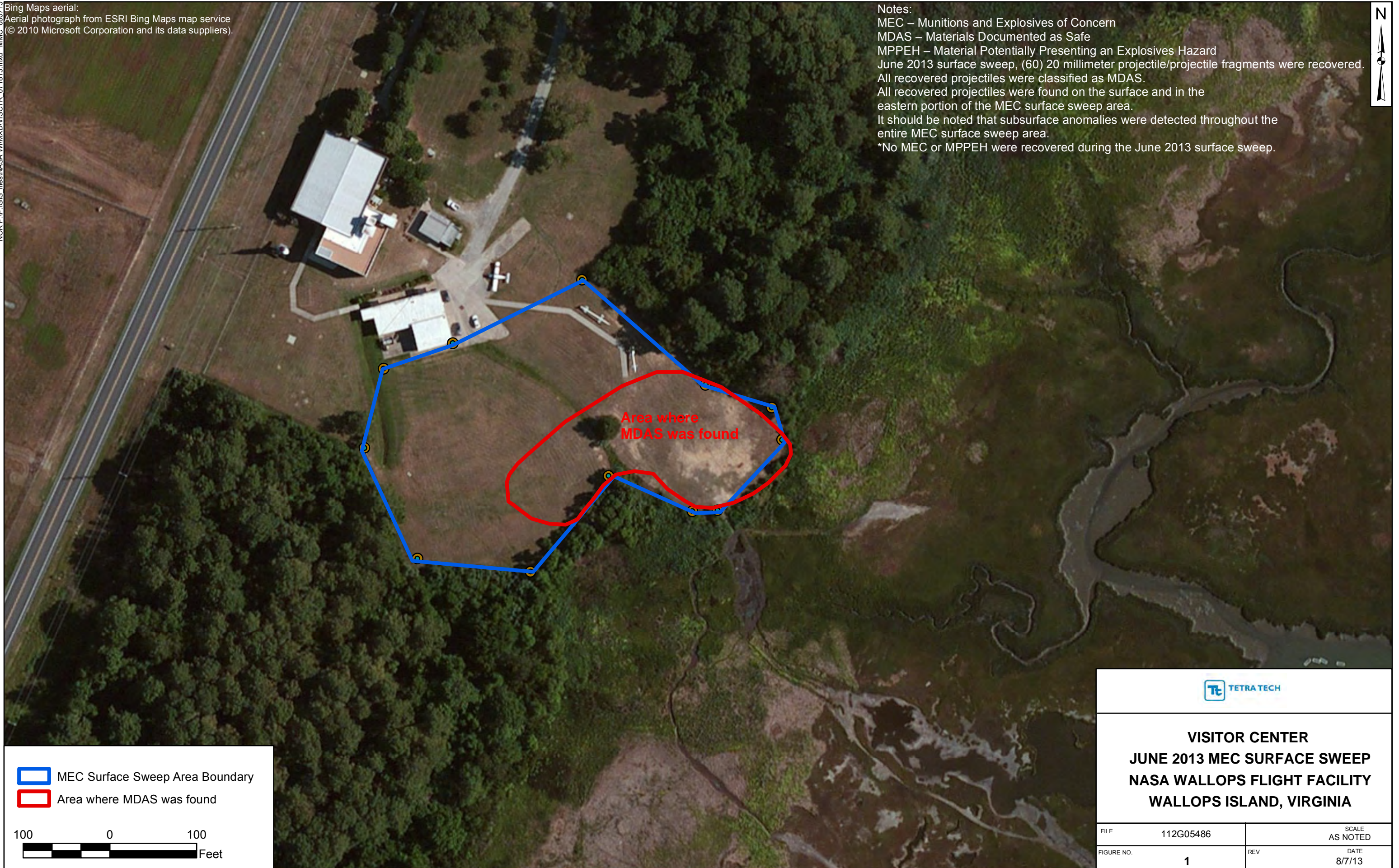
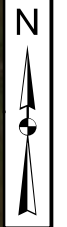
- The type II storage magazine remains inside the site storage shed. The magazine is empty and is labeled accordingly.



FIGURES

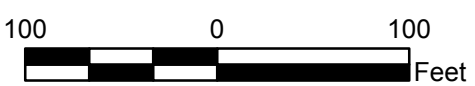
Bing Maps aerial:
Aerial photograph from ESRI Bing Maps map service
(© 2010 Microsoft Corporation and its data suppliers).

NOR P:\PI\GIS files\NASA\WIMX\DIVISCTR_071813.mxd MMC_080713

Notes:
MEC – Munitions and Explosives of Concern
MDAS – Materials Documented as Safe
MPPEH – Material Potentially Presenting an Explosives Hazard
June 2013 surface sweep, (60) 20 millimeter projectile/projectile fragments were recovered.
All recovered projectiles were classified as MDAS.
All recovered projectiles were found on the surface and in the eastern portion of the MEC surface sweep area.
It should be noted that subsurface anomalies were detected throughout the entire MEC surface sweep area.
*No MEC or MPPEH were recovered during the June 2013 surface sweep.



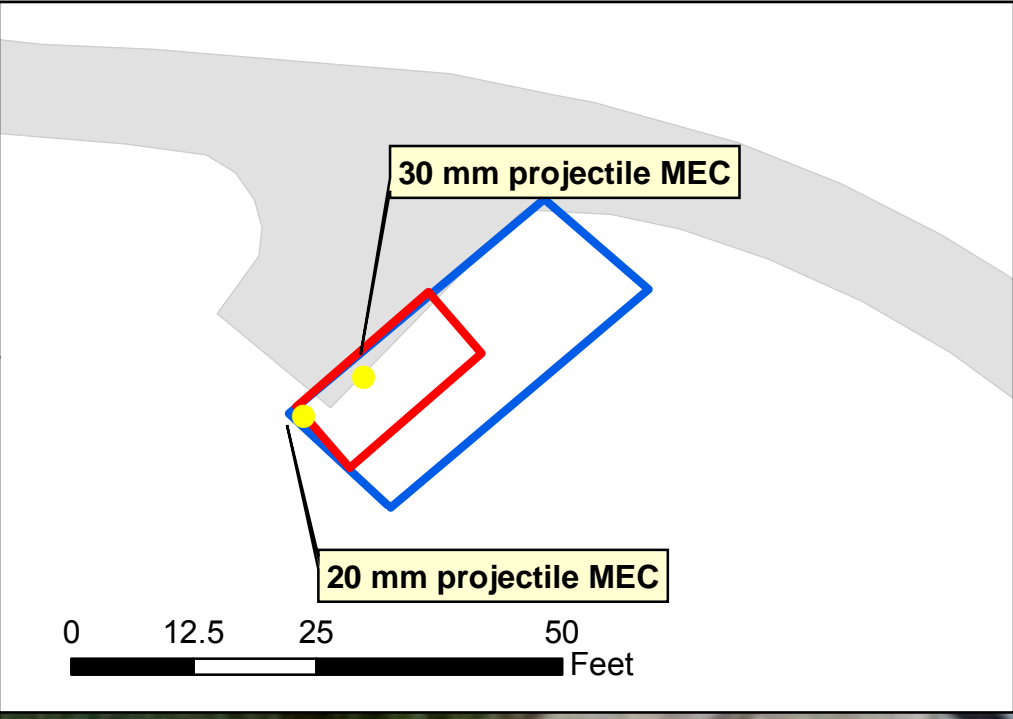
-  MEC Surface Sweep Area Boundary
-  Area where MDAS was found



**VISITOR CENTER
JUNE 2013 MEC SURFACE SWEEP
NASA WALLOPS FLIGHT FACILITY
WALLOPS ISLAND, VIRGINIA**

FILE	112G05486	SCALE	AS NOTED
FIGURE NO.	1	REV	DATE
			8/7/13


Notes:
 MEC – Munitions and Explosives of Concern
 MDAS – Materials Documented as Safe
 June 2013 surface sweep, (17) 20 millimeter projectile/projectile fragments were recovered.
 It should be noted that subsurface anomalies were detected throughout the entire MEC surface sweep area.



- MEC item found (June 2013)
- MEC Surface Sweep Area Boundary
- Area where MDAS was found

0 25 50 100
 Feet

Bing Maps aerial:
 Aerial photograph from ESRI Bing Maps map service
 (© 2010 Microsoft Corporation and its data suppliers).

	
GPS DATA 6/20/13 NASA Wallops Flight Facility Wallops Island, Virginia	
FILE 112G05486	SCALE AS NOTED
FIGURE NO. 2	REV DATE 8/7/13

MDAS CERTIFICATION FORM



Tetra Tech
MRP FF.13
MDAS Addition Form

Facility/Location: Wallops Island NASA Site Site(s): Visitors Center/Launch Area 005 & 012

Container # 001 Seal/Key # C0534

NO.	Description/NIIN	Quantity	Item No.*	Type of Treatment*
1	20mm Pieces	77		
2				
3				
4				
5				
6				
7				
8				
9				
10				

* If applicable.

“This certifies that the material potentially presenting an explosive hazard listed has been 100 percent properly inspected and to the best of our knowledge and belief, is inert and/or free of explosives or related materials”

CERTIFIER: Mark A. Ladd

SIGNATURE  DATE 20 June 2013

POSITION Senior Unexploded Ordnance Supervisor

ORGANIZATION NAME Tetra Tech NUS

ORGANIZATION ADDRESS 2171 W. Park Ct. Ste E, Stone Mountain GA 30087

ORGANIZATION PHONE NUMBER 770-413-0965

VERIFIER: Nick Brantley

SIGNATURE  DATE 20 June 2013

POSITION Unexploded Ordnance Safety Officer/Quality Control Specialist

ORGANIZATION NAME Tetra Tech NUS

ORGANIZATION ADDRESS 2171 W. Park Ct. Ste E, Stone Mountain GA 30087

ORGANIZATION PHONE NUMBER 770-413-0965

DAILY REPORTS



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

**Facility/Location: Wallops Island VA. NASA Visitors Center and
 Site 005 & 012**

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep	Date: 17 June 2013
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PROJECT NO: 112G05486	TASK CODES: 03
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SUMMARY OF DAILY PROGRESS: (Update Definable Feature of Work - Worksheet 12)

Mobilization/Set Preparation: Team mobilized on 16 June.

Site Survey: N/A

Vegetation Management: N/A

GPS Positional Data: GPS data was collected marking the investigation area.

Detector Aided Surface Surveys: Performed Detector Aided Surface Survey of Visitors Center Site.

Target Reacquisition: N/A

Intrusive Operation: N/A

Donor Explosives Handling/Storage: N/A

MEC Management (Treatment): N/A

MPPEH Management (Inspections): Recovered MDAS was dual inspected and secured in the MDAS container.

MPPEH Management (Certification): N/A

MPPEH Management (Disposal): N/A

Demobilization: N/A

Other: N/A

LIST OF MEC ITEMS ID, MPPEH ITEM ID, MDAS, OR NONE
 (for documentation see MEC/MPPEH/MDAS Tracking Logs for added details):

Item ID	Description	Item ID	Description
20mm	MDAS (46 Pieces)		



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

**Facility/Location: Wallops Island VA. NASA Visitors Center and
Site 005 & 012**

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep	Date: 17 June 2013
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 0700: Arrived on site. The access gate was locked so we held our team tailgate safety meeting and reviewed the work plan and HASP. 0730: Enter the site by stepping over the facility fence. We located the storage building that is housing the type II magazine and performed a site walk of the investigation area. 0800: Performed the blanket test to verify instrument were functional. We began site set-up at the investigation area. 0900: Mrs. Susan Dunn visited the site with keys to the gate and to the storage building with the magazine. I provided her with a set of the work plans and the HASP. She gave us a tour of the area and confirmed our work area and schedule. 0930: The detector-aided surface sweeps began. The Tetra Tech Project Manager Mr. Ernie Wu visited the site and grounded the Type II magazine storage building. He completed in about 20 minutes and then left the area. 1630: The team completed sweeps for the day and we inventoried the MDAS and secured it in the MDAS barrel. The only items found today were MDAS. Held a post shift meeting with the team. 1700: Secured for the day.	
IMPORTANT PHONE CALLS/DECISIONS: Called Site Manager Norm Piper to report the gate was locked.	
FIELD TASK MODIFICATIONS: NONE	
WEATHER CONDITIONS: PARTLY CLOUDY WITH A HIGH OF 84 DEGREES	
VISITORS ON SITE: NONE	
PERSONNEL ON SITE: Tye Turner, Mark Ladd, Nick Brantley	
SIGNATURE: Mark A. Ladd	DATE: 17 June 2013



TETRA TECH
MRP FF.21
DAILY SAFETY LOG

Facility/Location: Wallops Island NASA

Site(s): Visitors Center/ Site 005 &012

FIELD ACTIVITY SUBJECT: Detector-aided surface sweep		Date	17 Jun 13
PROJECT NO.: 112G05486		TASK CODES: 03	
SUMMARY OF DAILY ACTIVITIES AND EVENTS: Held a team tailgate safety meeting. Reminded the team to use mosquito spray and to check frequently for ticks. Reviewed site planning documents. Performed site walk. Performed detector-aided surface sweep. No discrepancies reported.			
VISITORS ON SITE (indicate if received Site-Specific raining): Susan Dunn (Base POC), Ernie Wu (Tetra Tech PM).			
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None			
WEATHER CONDITIONS: (temp, wind, humidity, precipitation) High of 85 and scattered showers.		IMPORTANT TELEPHONE CALLS: None	
PERSONNEL ON SITE: See Tailgate Safety Briefing/Training Record			
SIGNATURE: Mark A. Ladd		DATE: 17 Jun 13	



TETRA TECH

MRP FF.22

DAILY TAILGATE SAFETY BRIEFING/TRAINING RECORD

**Facility/Location: WALLOPS ISLAND VA. NASA VISITOR CENTER AND LAUNCH
AREA 005 &012**

1. Briefing(s) Given By:	Name	Signature	Position
	MARK A. LADD		SAFETY/QC OFFICER
Date: <u>17 June 13</u>	Time: 0700	Team #: N/A	
2. Reason for Briefing:			
<input type="checkbox"/> Initial Safety Briefing <input checked="" type="checkbox"/> Daily Safety Briefing <input type="checkbox"/> New Task Briefing: _____ <input type="checkbox"/> Periodic Safety Meeting		<input type="checkbox"/> New Site Procedure: _____ <input type="checkbox"/> New Site Information: _____ <input type="checkbox"/> Review of Site Information <input type="checkbox"/> Other: (Specify) _____	
3. List Today's Project Tasks (reference definable features of work – See Worksheet 12.):			
4. Safety Topics: (Check All That Apply – per AHA or Work Permit)			
<input checked="" type="checkbox"/> Site Safety Personnel <input checked="" type="checkbox"/> Site/Work Area Description <input checked="" type="checkbox"/> Physical Hazards <input type="checkbox"/> Chemical/Biological Hazards <input checked="" type="checkbox"/> Heat/Cold Stress <input type="checkbox"/> Work/Support Zones <input checked="" type="checkbox"/> PPE <input checked="" type="checkbox"/> Safe Work Practices <input type="checkbox"/> Air Monitoring <input type="checkbox"/> Task Training <input type="checkbox"/> OE Precautions		<input type="checkbox"/> Decontamination Procedures <input checked="" type="checkbox"/> Emergency Response/Equipment <i>Use Bag</i> <input type="checkbox"/> On-Site Injuries/Illness <input type="checkbox"/> Reporting Procedures <input checked="" type="checkbox"/> Directions to Medical Facility <i>Spray - Lots of Mosquitoes</i> <input type="checkbox"/> Drug and Alcohol Policies <input type="checkbox"/> Medical Monitoring <input checked="" type="checkbox"/> Evacuation/Egress Procedures <input checked="" type="checkbox"/> Communications <input type="checkbox"/> Confined Spaces <input type="checkbox"/> Other:	
5. Remarks: AHA'S FOR THE DFW'S LISTED ABOVE WERE COVERED.			
6. Personnel Attending			
Name	Signature	Position	
NICK BRANTLEY		UXO TECH II	
TYE TURNER		UXO TECH I	

NASA WFF Visitor Center MEC Surface Clearance
Photo Log, June 17, 2013



Photo: WIVC 01



Photo: WIVC 02

NASA WFF Visitor Center MEC Surface Clearance
Photo Log, June 17, 2013



Photo: WIVC 03



Photo: WIVC 04

NASA WFF Visitor Center MEC Surface Clearance
Photo Log, June 17, 2013



Photo: WIVC 05



Photo: WIVC 06

NASA WFF Visitor Center MEC Surface Clearance
Photo Log, June 17, 2013



Photo: WIVC 07



Photo: WIVC 08

NASA WFF Visitor Center MEC Surface Clearance
Photo Log, June 17, 2013



Photo: WIVC 09



Photo: WIVC 10



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

**Facility/Location: Wallops Island VA. NASA Visitors Center and
 Site 005 & 012**

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep		Date: 18 June 2013									
PROJECT NO: 112G05486		TASK CODES: 03									
<p>SUMMARY OF DAILY PROGRESS: (Update Definable Feature of Work - Worksheet 12)</p> <p>Mobilization/Set Preparation: Team mobilized on 16 June.</p> <p>Site Survey: N/A</p> <p>Vegetation Management: N/A</p> <p>GPS Positional Data: GPS data was collected marking the investigation area.</p> <p>Detector Aided Surface Surveys: Performed Detector Aided Surface Survey of Visitors Center Site.</p> <p>Target Reacquisition: N/A</p> <p>Intrusive Operation: N/A</p> <p>Donor Explosives Handling/Storage: N/A</p> <p>MEC Management (Treatment): N/A</p> <p>MPPEH Management (Inspections): Recovered MDAS was dual inspected and secured in the MDAS container.</p> <p>MPPEH Management (Certification): N/A</p> <p>MPPEH Management (Disposal): N/A</p> <p>Demobilization: N/A</p> <p>Other: N/A</p>											
<p>LIST OF MEC ITEMS ID, MPPEH ITEM ID, MDAS, OR NONE (for documentation see MEC/MPPEH/MDAS Tracking Logs for added details):</p> <table border="1"> <thead> <tr> <th>Item ID</th> <th>Description</th> <th>Item ID</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>20mm</td> <td>MDAS (14 Pieces)</td> <td></td> <td></td> </tr> </tbody> </table>				Item ID	Description	Item ID	Description	20mm	MDAS (14 Pieces)		
Item ID	Description	Item ID	Description								
20mm	MDAS (14 Pieces)										



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

**Facility/Location: Wallops Island VA. NASA Visitors Center and
Site 005 & 012**

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep	Date: 18 June 2013
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 0700: Held Tailgate Safety Meeting and discussed the work plan for the day. Did blanket test of the Schonstedts to verify equipment was functioning properly. 0730: Team began sweeps at the NASA Visitors Center. I met with a NASA representative at the shed area to discuss moving the Type II magazine into position to be used. His team pulled the magazine out and set it up on the wheels and put it back in the shed using a front end loader and chain. 1630: The team completed sweeps for the day and we inventoried the MDAS and secured it in the MDAS barrel. The only items recovered today were MDAS (14 20mm pieces). Held a post shift meeting with the team. 1700: Secured for the day.	
IMPORTANT PHONE CALLS/DECISIONS: None	
FIELD TASK MODIFICATIONS: NONE	
WEATHER CONDITIONS: Rain and 85 degrees	
VISITORS ON SITE: See Visitors Log	
PERSONNEL ON SITE: Tye Turner, Mark Ladd, Nick Brantley	
SIGNATURE: Mark A. Ladd	DATE: 18 June 2013



TETRA TECH
MRP FF.21
DAILY SAFETY LOG

Facility/Location: Wallops Island NASA

Site(s): Visitors Center/ Site 005 &012

FIELD ACTIVITY SUBJECT: SI		Date	18 Jun 13
PROJECT NO.: 112G05486		TASK CODES: 03	
SUMMARY OF DAILY ACTIVITIES AND EVENTS: Held a team tailgate safety meeting. Reminded team about using proper lifting techniques. Applied mosquito foggers in the area of work. Observed the team wearing proper PPE. No discrepancies noted.			
VISITORS ON SITE (indicate if received Site-Specific raining): None			
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None			
WEATHER CONDITIONS: (temp, wind, humidity, precipitation) High of 85 and scattered showers		IMPORTANT TELEPHONE CALLS: None	
PERSONNEL ON SITE: See Tailgate Safety Briefing/Training Record			
SIGNATURE: Mark A. Ladd		DATE: 18 Jun 13	

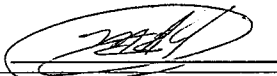
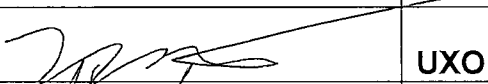



TETRA TECH

MRP FF.22

DAILY TAILGATE SAFETY BRIEFING/TRAINING RECORD

**Facility/Location: WALLOPS ISLAND VA. NASA VISITOR CENTER AND LAUNCH
AREA 005 &012**

1. Briefing(s) Given By:	Name	Signature	Position
	MARK A. LADD		SAFETY/QC OFFICER
Date: 18 Jun 13	Time: 0700	Team #: N/A	
2. Reason for Briefing:			
<input type="checkbox"/> Initial Safety Briefing <input checked="" type="checkbox"/> Daily Safety Briefing <input type="checkbox"/> New Task Briefing: _____ <input type="checkbox"/> Periodic Safety Meeting		<input type="checkbox"/> New Site Procedure: _____ <input type="checkbox"/> New Site Information: _____ <input type="checkbox"/> Review of Site Information <input type="checkbox"/> Other: (Specify) _____	
3. List Today's Project Tasks (reference definable features of work – See Worksheet 12.):			
4. Safety Topics: (Check All That Apply – per AHA or Work Permit)			
<input checked="" type="checkbox"/> Site Safety Personnel <input checked="" type="checkbox"/> Site/Work Area Description <input checked="" type="checkbox"/> Physical Hazards <input type="checkbox"/> Chemical/Biological Hazards <input checked="" type="checkbox"/> Heat/Cold Stress <input type="checkbox"/> Work/Support Zones <input checked="" type="checkbox"/> PPE <input checked="" type="checkbox"/> Safe Work Practices <input type="checkbox"/> Air Monitoring <input type="checkbox"/> Task Training <input type="checkbox"/> OE Precautions		<input type="checkbox"/> Decontamination Procedures <input checked="" type="checkbox"/> Emergency Response/Equipment <input type="checkbox"/> On-Site Injuries/Illness <input type="checkbox"/> Reporting Procedures <input checked="" type="checkbox"/> Directions to Medical Facility <input type="checkbox"/> Drug and Alcohol Policies <input type="checkbox"/> Medical Monitoring <input checked="" type="checkbox"/> Evacuation/Egress Procedures <input checked="" type="checkbox"/> Communications <input type="checkbox"/> Confined Spaces <input type="checkbox"/> Other:	
5. Remarks: AHA'S FOR THE DFW'S LISTED ABOVE WERE COVERED.			
6. Personnel Attending			
Name	Signature	Position	
NICK BRANTLEY		UXO TECH II	
TYE TURNER		UXO TECH I	



TETRA TECH
MRP FF.4
VISITOR'S LOG

Facility/Location: Wallops Island NASA Site
Site(s): Visitors Center and Launch Area

DATE	Time		PRINT NAME	SIGNATURE	ORGANIZATION	PHONE #	RAC
	In	Out					
6/17	0900	0930	Susan Dunn		NASA	410-430-3060	IV-5
6/17	1000	1030	Ernie Wu		TT PM	757-619-5406	IV-5
6/18	1400	1430	TJ Meyer		NASA	757-824-1987	IV-5
6/18	1400	1430	John W. Birch Jr.		NASA	757-824-1375	IV-5
6/18	1400	1430	Rob Seeks		MEJ /803.2	757-824-2687	IV-5
6/18	1400	1430	Christina Townsend		NASA	757-824-2343	IV-5
6/18	1400	1430	FRANK J. McElhany		NASA	757-824-2467	IV-5



Tetra Tech
MRP FF.13
MDAS Addition Form

Facility/Location: Wallops Island NASA Site Site(s): Visitor Center/Launch area 005 & 012

Container # 001 Seal/Key # C0534

NO.	Description/NIIN	Quantity	Item No.*	Type of Treatment*
1	20mm Pieces	60		
2				
3				
4				
5				
6				
7				
8				
9				
10				

* If applicable.

“This certifies that the material potentially presenting an explosive hazard listed has been 100 percent properly inspected and to the best of our knowledge and belief, is inert and/or free of explosives or related materials”

CERTIFIER: Mark A. Ladd

SIGNATURE  DATE: 18 JUN 13


POSITION Senior Unexploded Ordnance Supervisor

ORGANIZATION NAME Tetra Tech NUS

ORGANIZATION ADDRESS 2171 W. Park Ct. Ste E, Stone Mountain GA 30087

ORGANIZATION PHONE NUMBER 770-413-0965

VERIFIER: Nick Brantley

SIGNATURE  DATE: 18 JUN 13

POSITION Unexploded Ordnance Safety Officer/Quality Control Specialist

ORGANIZATION NAME Tetra Tech NUS

ORGANIZATION ADDRESS 2171 W. Park Ct. Ste E, Stone Mountain GA 30087

ORGANIZATION PHONE NUMBER 770-853-5308



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

**Facility/Location: Wallops Island VA. NASA Visitors Center and
 Site 005 & 012**

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep		Date: 19 June 2013	
PROJECT NO: 112G05486		TASK CODES: 03	
SUMMARY OF DAILY PROGRESS: (Update Definable Feature of Work - Worksheet 12)			
Mobilization/Set Preparation: Team mobilized on 16 June.			
Site Survey: N/A			
Vegetation Management: N/A			
GPS Positional Data: GPS data was collected marking the investigation area.			
Detector Aided Surface Surveys: Performed Detector Aided Surface Survey of Visitors Center Site.			
Target Reacquisition: N/A			
Intrusive Operation: N/A			
Donor Explosives Handling/Storage: N/A			
MEC Management (Treatment): N/A			
MPPEH Management (Inspections): N/A			
MPPEH Management (Certification): N/A			
MPPEH Management (Disposal): N/A			
Demobilization: N/A			
Other: N/A			
LIST OF MEC ITEMS ID, MPPEH ITEM ID, MDAS, OR NONE (for documentation see MEC/MPPEH/MDAS Tracking Logs for added details):			
Item ID	Description	Item ID	Description
No MEC/MPPEH/MDAS items were recovered today.			
20mm	MDAS (60 total to date)		



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

Facility/Location: Wallops Island VA. NASA Visitors Center and
Site 005 & 012

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep	Date: 19 June 2013
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: 0600: Held Tailgate Safety Meeting and discussed the work plan for the day. Held added safety training on tick bites and PPE. Performed blanket test of the Schonstedts. 0630: Team began sweeps at the NASA Visitors Center. 1530: The team completed sweeps for the. No MDAS was recovered today. Held a post shift meeting with the team. Activities at the visitor's center are complete. Subsurface anomalies are present throughout the site. I met with Susan Dunn to coordinate tomorrow's activities and she will meet us in the morning at the Visitor Center to escort us to site 5 and 12. 1600: Secured for the day.	
IMPORTANT PHONE CALLS/DECISIONS: None	
FIELD TASK MODIFICATIONS: None	
WEATHER CONDITIONS: Rain and 85 degrees	
VISITORS ON SITE: See Visitors Log	
PERSONNEL ON SITE: Tye Turner, Mark Ladd, Nick Brantley	
SIGNATURE: Mark A. Ladd	DATE: 19 June 2013



TETRA TECH
MRP FF.21
DAILY SAFETY LOG

Facility/Location: Wallops Island NASA

Site(s): Visitors Center/ Site 005 &012

FIELD ACTIVITY SUBJECT: SI		Date	19 Jun 13
PROJECT NO.: 112G05486		TASK CODES: 03	
SUMMARY OF DAILY ACTIVITIES AND EVENTS: Held a team tailgate safety meeting. Added safety discussion on PPE for a variety of tasks. Discussed the proper procedure for removal of ticks and first aid for tick bites. Discussed MEC/MPPEH notification procedures. No discrepancies noted.			
VISITORS ON SITE (indicate if received Site-Specific raining): See Visitors Log			
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None			
WEATHER CONDITIONS: (temp, wind, humidity, precipitation) High of 85 and scattered showers (20%)		IMPORTANT TELEPHONE CALLS: None	
PERSONNEL ON SITE: See Tailgate Safety Briefing/Training Record			
SIGNATURE: Mark A. Ladd		DATE: 19 Jun 13	

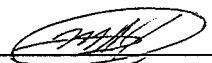
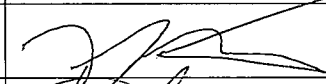
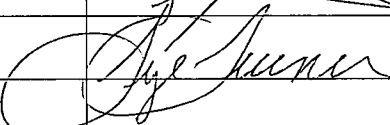


TETRA TECH

MRP FF.22

DAILY TAILGATE SAFETY BRIEFING/TRAINING RECORD

**Facility/Location: WALLOPS ISLAND VA. NASA VISITOR CENTER AND LAUNCH
AREA 005 &012**

1. Briefing(s) Given By:	Name	Signature	Position
	MARK A. LADD		SAFETY/QC OFFICER
Date: 19 Jun 13	Time: 0700	Team #: N/A	
2. Reason for Briefing:			
<input type="checkbox"/> Initial Safety Briefing <input checked="" type="checkbox"/> Daily Safety Briefing <input type="checkbox"/> New Task Briefing: _____ <input type="checkbox"/> Periodic Safety Meeting		<input type="checkbox"/> New Site Procedure: _____ <input type="checkbox"/> New Site Information: _____ <input type="checkbox"/> Review of Site Information <input type="checkbox"/> Other: (Specify) _____	
3. List Today's Project Tasks (reference definable features of work – See Worksheet 12.):			
4. Safety Topics: (Check All That Apply – per AHA or Work Permit)			
<input checked="" type="checkbox"/> Site Safety Personnel <input checked="" type="checkbox"/> Site/Work Area Description <input checked="" type="checkbox"/> Physical Hazards <input type="checkbox"/> Chemical/Biological Hazards <input checked="" type="checkbox"/> Heat/Cold Stress <input type="checkbox"/> Work/Support Zones <input checked="" type="checkbox"/> PPE <input checked="" type="checkbox"/> Safe Work Practices <input type="checkbox"/> Air Monitoring <input type="checkbox"/> Task Training <input type="checkbox"/> OE Precautions		<input type="checkbox"/> Decontamination Procedures <input checked="" type="checkbox"/> Emergency Response/Equipment <input type="checkbox"/> On-Site Injuries/Illness <input type="checkbox"/> Reporting Procedures <input checked="" type="checkbox"/> Directions to Medical Facility <input type="checkbox"/> Drug and Alcohol Policies <input type="checkbox"/> Medical Monitoring <input checked="" type="checkbox"/> Evacuation/Egress Procedures <input checked="" type="checkbox"/> Communications <input type="checkbox"/> Confined Spaces <input type="checkbox"/> Other:	
5. Remarks: AHA'S FOR THE DFW'S LISTED ABOVE WERE COVERED.			
6. Personnel Attending			
Name	Signature	Position	
NICK BRANTLEY		UXO TECH II	
TYE TURNER		UXO TECH I	



TETRA TECH
MRP FF.4
VISITOR'S LOG

Facility/Location: Wallops Island NASA Site
Site(s): Visitors Center and Launch Area

DATE	Time		PRINT NAME	SIGNATURE	ORGANIZATION	PHONE #	RAC
	In	Out					
6/17	0900	0930	Susan Dunn		NASA	410-430-3060	IV-5
6/17	1000	1030	Ernie Wu		TT PM	757-619-5406	IV-5
6/18	1400	1430	TJ Meyer		NASA	757-824-1987	IV-5
6/18	1400	1430	John W. Birch Jr.		NASA	757-824-1375	IV-5
6/18	1400	1430	Rob Seeks		MEJ /803.2	757-824-2687	IV-5
6/18	1400	1430	Christina Townsend		NASA	757-824-2343	IV-5
6/18	1400	1430	FRANK J. McElhany		NASA	757-824-2467	IV-5
6/19	1530	1545	Susan Dunn		NASA	410-430-3060	IV-5



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

**Facility/Location: Wallops Island VA. NASA Visitors Center and
 Site 005 & 012**

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep		Date: 20 June 2013																					
PROJECT NO: 112G05486		TASK CODES: 03																					
<p>SUMMARY OF DAILY PROGRESS: (Update Definable Feature of Work - Worksheet 12)</p> <p>Mobilization/Set Preparation: Team mobilized on 16 June.</p> <p>Site Survey: N/A</p> <p>Vegetation Management: N/A</p> <p>GPS Positional Data: GPS data was collected marking the investigation area.</p> <p>Detector Aided Surface Surveys: Performed Detector Aided Surface Survey of Visitors Center Site.</p> <p>Target Reacquisition: N/A</p> <p>Intrusive Operation: N/A</p> <p>Donor Explosives Handling/Storage: Team received explosives from NASA personnel.</p> <p>MEC Management (Treatment): Team performed demolition operations.</p> <p>MPPEH Management (Inspections): Recovered MPPEH was dual inspected. Items not determined MDAS were treated as MEC using donor charges. Items determined MDAS were certified and secured in the MDAS container.</p> <p>MPPEH Management (Certification): All MDAS was certified as not possessing an explosive hazard prior to release to NASA personnel</p> <p>MPPEH Management (Disposal): MDAS was turned over to NASA facility personnel.</p> <p>Demobilization: Team prepared packages for shipment and secured area for demobilization on 21 June.</p> <p>Other: N/A</p>																							
<p>LIST OF MEC ITEMS ID, MPPEH ITEM ID, MDAS, OR NONE (for documentation see MEC/MPPEH/MDAS Tracking Logs for added details):</p> <table border="1"> <thead> <tr> <th>Item ID</th> <th>Description</th> <th>Item ID</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>20 mm (MEC) – N3843993.64 E12354626.83</td> <td></td> <td>Destroyed via donor charge</td> </tr> <tr> <td>(1)</td> <td>30 mm (MEC) – N3843996.04 E12354631.07</td> <td></td> <td>Destroyed via donor charge</td> </tr> <tr> <td>(17)</td> <td colspan="3">20mm projectile fragments (MDAS)</td> </tr> <tr> <td colspan="4">20mm MDAS (77 total to date)</td> </tr> </tbody> </table>				Item ID	Description	Item ID	Description	(1)	20 mm (MEC) – N3843993.64 E12354626.83		Destroyed via donor charge	(1)	30 mm (MEC) – N3843996.04 E12354631.07		Destroyed via donor charge	(17)	20mm projectile fragments (MDAS)			20mm MDAS (77 total to date)			
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20mm MDAS (77 total to date)																							



TETRA TECH
MRP FF.2
DAILY MEC ACTIVITY LOG

Facility/Location: Wallops Island VA. NASA Visitors Center and
Site 005 & 012

FIELD ACTIVITY SUBJECT: Detector-Aided Sweep	Date: 20 June 2013
DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: <p>0700: Held Tailgate Safety Meeting and discussed the work plan for the day. Held added safety brief on handling of explosives. Performed blanket test on Schonstedts.</p> <p>0730: Team met with Susan Dunn who escorted us to the Launch site 005 and 012.</p> <p>0830: Team began sweeps of the Launch area sites.</p> <p>1030: Recovered a 20mm projectile with a fuze and 30mm projectile with fuze. Upon inspection found both to be MEC and a hazard to personnel in the area. After isolating the area where these items were found I made the necessary calls to notify the Project Manager (PM). After making the necessary contacts we continued our sweep of the area and found no further items in need of treatment. A total of 17 MDAS items were recovered (all 20mm) and were added to the MDAS inventory.</p> <p>1130: After receiving permission to proceed with demo, we received the explosives from NASA personnel, cleared the area with assistance from Susan Dunn (NASA PM), and held a successful demolition treatment of the items.</p> <p>1300: Performed a sweep of the demo and gave an "All Clear" to the security and fire departments.</p> <p>1430: Returned to the Visitor Center area MDAS storage area and completed the MDAS inventory and placed an EMPTY sign on the Type II portable magazine. I locked the magazine and the MDAS and the shed. I completed a 1348 on the MDAS and transferred custody of the MDAS and all keys to Susan Dunn.</p> <p>1600: The team cleaned and packaged all gear for shipment.</p> <p>1630: Held a post shift meeting and discussed demob schedule.</p> <p>1700: Secured for the day.</p>	
FIELD TASK MODIFICATIONS: None	
WEATHER CONDITIONS: Sunny and 89 degrees	
VISITORS ON SITE: See Visitors Log	
PERSONNEL ON SITE: Tye Turner, Mark Ladd, Nick Brantley	
SIGNATURE: Mark A. Ladd	DATE: 20 June 2013



TETRA TECH
MRP FF.21
DAILY SAFETY LOG

Facility/Location: Wallops Island NASA

Site(s): Visitors Center/ Site 005 & 012

FIELD ACTIVITY SUBJECT: SI		Date	20 Jun 13
PROJECT NO.: 112G05486		TASK CODES: 03	
SUMMARY OF DAILY ACTIVITIES AND EVENTS: Held a team tailgate safety meeting. Added safety discussion on handling explosives. Completed a detailed demolition brief. Completed a safe demolition treatment of MEC items. No discrepancies noted. All activities for this operation have been completed. No safety issues reported.			
VISITORS ON SITE (indicate if received Site-Specific raining): See Visitors Log			
CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None			
WEATHER CONDITIONS: (temp, wind, humidity, precipitation) High of 89 with sunny skies		IMPORTANT TELEPHONE CALLS: None	
PERSONNEL ON SITE: See Tailgate Safety Briefing/Training Record			
SIGNATURE: Mark A. Ladd		DATE: 20 Jun 13	



TETRA TECH

MRP FF.22

DAILY TAILGATE SAFETY BRIEFING/TRAINING RECORD

**Facility/Location: WALLOPS ISLAND VA. NASA VISITOR CENTER AND LAUNCH
AREA 005 &012**

1. Briefing(s) Given By:	Name	Signature	Position
	MARK A. LADD		SAFETY/QC OFFICER
Date: <u>20 Jun 13</u>	Time: 0700	Team #: N/A	
2. Reason for Briefing:			
<input type="checkbox"/> Initial Safety Briefing <input checked="" type="checkbox"/> Daily Safety Briefing <input type="checkbox"/> New Task Briefing: _____ <input type="checkbox"/> Periodic Safety Meeting		<input type="checkbox"/> New Site Procedure: _____ <input type="checkbox"/> New Site Information: _____ <input type="checkbox"/> Review of Site Information <input type="checkbox"/> Other: (Specify) _____	
3. List Today's Project Tasks (reference definable features of work – See Worksheet 12.):			
4. Safety Topics: (Check All That Apply – per AHA or Work Permit)			
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5. Remarks: AHA'S FOR THE DFW'S LISTED ABOVE WERE COVERED.			
6. Personnel Attending			
Name	Signature	Position	
NICK BRANTLEY		UXO TECH II	
TYE TURNER		UXO TECH I	



TETRA TECH
MRP FF.4
VISITOR'S LOG

Facility/Location: Wallops Island NASA Site
Site(s): Visitors Center and Launch Area

DATE	Time		PRINT NAME	SIGNATURE	ORGANIZATION	PHONE #	RAC
	In	Out					
6/17	0900	0930	Susan Dunn		NASA	410-430-3060	IV-5
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6/18	1400	1430	Rob Seeks		MEJ /803.2	757-824-2687	IV-5
6/18	1400	1430	Christina Townsend		NASA	757-824-2343	IV-5
6/18	1400	1430	FRANK J. McElhany		NASA	757-824-2467	IV-5
6/19	1530	1545	Susan Dunn		NASA	410-430-3060	IV-5
6/20	1200		Susan Dunn		NASA	410-430-3060	IV-5



PHONE: 800-277-6664
FAX: 800-508-8534

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Foster Plaza V11
661 Andersen Drive Foster Plaza VII
Pittsburgh PA 15220

Ship To: NASA Wallops Flight Facility
757-824-1987
TJ MEYER
Building F-160 Code 250
Wallop Island VA 23337

SHIPPING EMERGENCY CALL
CHEMTEL 1-800-255-3924

Date	Ship Via	F.O.B.	Terms Upon Receipt	EIN: 62-1317417	FEL: 5-AR-035-20-3H-12157, Exp: Aug 1, 2013
6/10/2013		ZIP CODE 72327	These items may be covered by the United States Munitions List (USML) and if so, therefore, subject to control by the US Dept of State. Export requires an export license, or other approval, issued by the US Dept of State.		
PO Number		Order Date			
		6/10/2013			

Quantity		Box No	Item Number	Description	Date Code / Additional Information	Ship Date	Unit Form	NEW/NET KG's
Ordered	Shipped							
1			BNA-ODG-2500FT	Shock Tube Lead Line - OD GREEN			2500 Ft. Roll	0.017
1			BN16-INST-25	Blasting Cap, Shock Tube - Instant - 16 ft			Box of 25	0.025
1	1	1/1	CSC-19G-10	Conical Shaped Charge 19 gram RDX	11JAN12A/FXG	6/13/2013	Box of 10	0.190
1	1	1/1	DC80-100FT	Detonating Cord, /80 Grain	22JUN12SE1/DETO/WHITE/FXG	6/13/2013	100 ft Roll	0.520
			CCP	CREDIT CARD PAYMENT				

NOTICE: CHECK THE ACTUAL CONTENTS OF YOUR ORDER AND COMPARE THE QUANTITIES TO THIS LIST AND TO THE PACKAGE LABELS.
REPORT ANY DISCREPANCIES IMMEDIATELY. DUE TO D.O.T. REGULATIONS, EXPLOSIVE ITEMS MAY BE REQUIRED TO BE SHIPPED ON DIFFERENT DATES.

Total NET KG 0.752

AMMUNITION CONSUMPTION CERTIFICATE

For use of this form, see AR 710-2-1, the proponent agency is DCS, G-4.

UNIT Tetra tech NUS	RANGE AND LOCATION NASA LAUNCH SITE AREA 012
DOCUMENT NO. 001	DATE 20 Jun 13

ITEM	DODIC	NOMENCLATURE	LOT NUMBER	QUANTITY CONSUMED
1	BNA-ODE-2500ft.	Shock tube lead line - 00 Green		2500ft.
2	BN16-INST-25	Blasting Cap, Shock tube - Instant - 16 ft		25
3	CSC-19G-10	Conical Shaped Charge 19 gram RDX		10
4	DC80-100ft	Det. Cord 180 grain		100ft
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> <p style="font-size: 2em; font-weight: bold;">No FURTHER ITEMS</p> </div>				

CERTIFYING OFFICIAL

I certify that I saw the above items consumed during training on (indicate date) →		DATE 20 June 13
NAME (Typed or Printed) MARK A. LADD	SIGNATURE 	
UNIT TETRA TECH NUS	POSITION SUXOS	

PHOTO LOG



TETRA TECH
MRP FF.5
Photographic Log

Facility/Location: NASA Wallops Flight Facility and Island

Site(s): Visitors Center and Site 005 & 012

Photograph Number	Date	Taken By (initials)	Subject/Description	Anomaly ID (if applicable)	Remarks/Comments
WIVC 01	17 JUN 13	MAL	VISITOR CENTER		
WIVC 02	17 JUN 13	MAL	VISITOR CENTER		
WIVC 03	17 JUN 13	MAL	VISITOR CENTER		
WIVC 04	17 JUN 13	MAL	VISITOR CENTER		
WIVC 05	17 JUN 13	MAL	VISITOR CENTER		
WIVC 06	17 JUN 13	MAL	VISITOR CENTER – 20mm PIECES (MDAS)		
WIVC 07	17 JUN 13	MAL	VISITOR CENTER - STORAGE SHED		
WIVC 08	7 JUN 13	MAL	VISITOR CENTER - TYPE 2 MAG WRAPPED		
WIVC 09	17 JUN 13	MAL	VISITOR CENTER - TYPE 2 MAG UNWRAPPED ON SIDE		
WIVC 10	17 JUN 13	MAL	VISITOR CENTER – MDAS BARREL		
WIVC 11	18 JUN 13	MAL	VISITOR CENTER - TYPE 2 MAG AND MDAS BARREL		
WIVC 12	18 JUN 13	MAL	VISITOR CENTER - MDAS BARREL		
WIVC 13	20 JUN 13	MAL	SITES 5/12		
WIVC 14	20 JUN 13	MAL	SITES 5/12		
WIVC 15	20 JUN 13	MAL	SITES 5/12 – 20mm PROJECTILE (MEC)		
WIVC 16	20 JUN 13	MAL	SITES 5/12 – 20 mm PROJECTILE (MEC)		
WIVC 17	20 JUN 13	MAL	SITES 5/12 – 30 mm PROJECTILE (MEC)		
WIVC 18	20 JUN 13	MAL	SITES 5/12 – 30 mm PROJECTILE (MEC)		
WIVC 19	20 JUN 13	MAL	SITES 5/12 – MEC DEMO		



TETRA TECH
MRP FF.5
Photographic Log

Facility/Location: NASA Wallops Flight Facility and Island

Site(s): Visitors Center and Site 005 & 012

Photograph Number	Date	Taken By (initials)	Subject/Description	Anomaly ID (if applicable)	Remarks/Comments
WIVC 20	20 JUN 13	MAL	SITES 5/12 – MEC DEMO		
WIVC 21	20 JUN 13	MAL	VISITOR CENTER - TYPE 2 MAG AND MDAS BARREL		
WIVC 22	20 JUN 13	MAL	VISITOR CENTER - TYPE 2 MAG AND MDAS BARREL		

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 01



Photo: WIVC 02

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 03



Photo: WIVC 04

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 05



Photo: WIVC 06

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 07



Photo: WIVC 08

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 09



Photo: WIVC 10

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 11



Photo: WIVC 12

NASA WFF Visitor Center MEC Surface Clearance
Photo Log, June 2013



Photo: WIVC 13



Photo: WIVC 14

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013

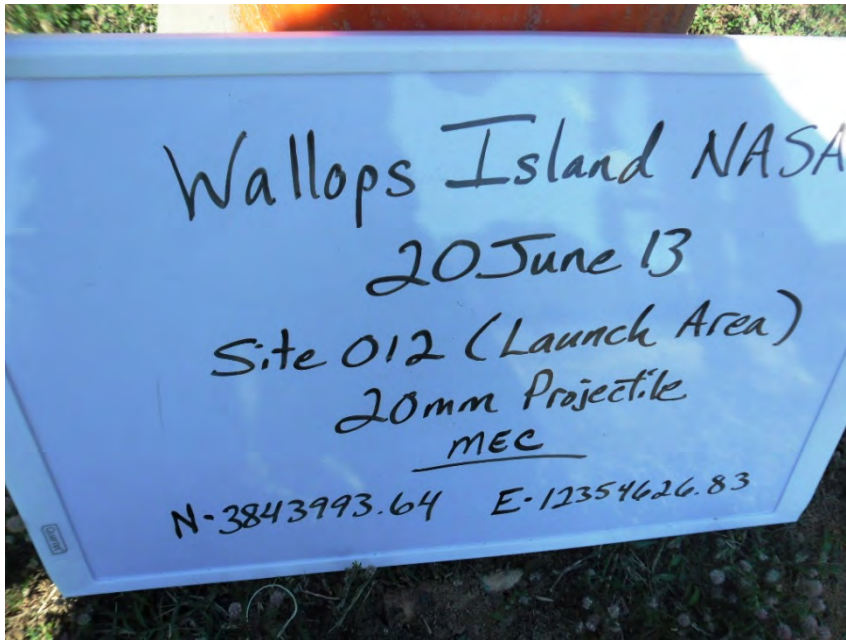


Photo: WIVC 15



Photo: WIVC 16

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC17



Photo: WIVC 18

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 19



Photo: WIVC 20

NASA WFF MEC Surface Clearance Photo Log
Visitor Center and Sites 5/12
June 17-20, 2013



Photo: WIVC 21



Photo: WIVC 22