

CY 2010

Operations and Maintenance Trip Reports and Quarterly Effectiveness
Evaluation Reports Time Critical Response Action for the Rocket Ridge
Area at RVAAP-004-R-01 Open Demolition Area #2

Trip Report

Prime Contract No:			Report No.	3
PIKA JOB #:	09-46-169		Date:	12/16/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	Partly Cloudy			
Temperature:	17° F			
Wind (Still, Moderate, High):	Still			
Humidity (Dry, Moderate, Humid):	Moderate			
<p>Field Activities:</p> <p>Description of debris inspection & removal activities: Removed organic debris, ice, snow and slush from upper and lower barriers. No MEC/MD found.</p> <p>Barrier Integrity: Barrier is upright and intact.</p> <p>Assessment of any changes since previous visit: Creek frozen 1" to 2" thickness.</p> <p>Repairs made or need to be made: None</p>				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier.			
SUXOS Safety Officer	Mel Lau Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



OVERVIEW OF SAND CREEK BARRIERS UPON ARRIVAL.



REMOVING ACCUMULATED DEBRIS, ICE AND SNOW FROM UPSTREAM BARRIER.



PICTURE SHOWING DEBRIS, ICE AND SNOW REMOVED FROM BARRIERS.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	3
PIKA JOB #:	09-46-169		Date:	12/16/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	Partly Cloudy			
Temperature:	17° F			
Wind (Still, Moderate, High):	Still			
Humidity (Dry, Moderate, Humid):	Moderate			
<p>Field Activities:</p> <p>Description of debris inspection & removal activities: Removed organic debris, ice, snow and slush from upper and lower barriers. No MEC/MD found.</p> <p>Barrier Integrity: Barrier is upright and intact.</p> <p>Assessment of any changes since previous visit: Creek frozen 1" to 2" thickness.</p> <p>Repairs made or need to be made: None</p>				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier.			
SUXOS Safety Officer	Mel Lau Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



OVERVIEW OF SAND CREEK BARRIERS UPON ARRIVAL.



REMOVING ACCUMULATED DEBRIS, ICE AND SNOW FROM UPSTREAM BARRIER.



PICTURE SHOWING DEBRIS, ICE AND SNOW REMOVED FROM BARRIERS.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	2
PIKA JOB #:	09-46-169		Date:	11/23/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Rain changing to Sunny		
Temperature:		53° F		
Wind (Still, Moderate, High):		0-5 mph, Still		
Humidity (Dry, Moderate, Humid):		Humid		
Field Activities:				
Description of debris inspection & removal activities: Removed organic material from upper and lower barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Both screens are bowed but still functional. Barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None.				
Repairs made or need to be made: The heavy accumulation of sediment along the southern end of the upstream barrier was removed during this inspection to ensure the structural integrity of the barrier is maintained. (see attached pictures)				

Remarks:

Visitors: Jim McGee (Vista), Frank Jackson, Joe Ayers and Jim Carroll (Franks Maintenance)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier.			
SUXOS	Mel Lau	Project Manager	Brian Stockwell
Safety Officer	Lew Kovarik		

PHOTO LOG



OVERVIEW OF SAND CREEK BARRIERS UPON ARRIVAL.



REMOVING ACCUMULATED DEBRIS AND SEDIMENT AT UPSTREAM BARRIER.



PICTURE SHOWING DEBRIS REMOVED FROM BARIERS.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Operations and Maintenance Trip Reports and Quarterly Effectiveness Evaluation Reports

Time Critical Response Action for the Rocket Ridge Area of Open Demolition Area #2 (RVAAP-004-R-01 Open Demolition Area #2 MRS)

Military Munitions Response Program Ravenna Army Ammunition Plant Ravenna, Ohio

Submitted To:
US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
CENWO-PM
1616 Capitol Avenue, Suite 9000
OMAHA, NE 68102-4901

Prepared By:
Vista Sciences Corporation
205 W. Boutz Rd., Bldg. 3, Ste C
Las Cruces, NM 88005

Contract Number W912QR-09-C-0084



October 2010 – September 2011

DISTRIBUTION LIST

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Derek Kinder, USACE	1	0	0
Glen Beckham, USACE	1	0	0
Adam Connelly, USACE	1	0	0
Brooke Conway, USACE	1	0	0
Travis McCoun, USACE	1	0	0
Leo Cueto, Vista Sciences Corporation/CEO	1	1	1
	11	4	5

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Section B	Quarterly Evaluation and Effectiveness Reports

Section A

Operations and Maintenance Reports

Trip Report

Prime Contract No:			Report No.	1
PIKA JOB #:	09-46-169		Date:	10/14/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Rain		
Temperature:		56° F		
Wind (Still, Moderate, High):		Still		
Humidity (Dry, Moderate, Humid):		Humid		
Field Activities:				
Description of debris inspection & removal activities: Removed leaves, twigs, sticks, mud and organic material from upper and lower barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Both screens are bowed but still functional. Barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None.				
Repairs made or need to be made: The heavy accumulation of silt along the barriers needs removed to prevent damage.				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier.			
SUXOS Safety Officer	Mel Lau Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



OVERVIEW OF SAND CREEK BARRIERS UPON ARRIVAL.



PICTURE SHOWING UXO TECHNICIAN REMOVING ACCUMULATED DEBRIS FROM SCREENS.



PICTURE SHOWING DEBRIS REMOVED FROM SCREEN.



PICTURE SHOWING OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Section B

Quarterly Evaluation and Effectiveness Reports

Trip Report

Prime Contract No:			Report No.	12
PIKA JOB #:	09-46-169		Date:	09/15/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Sunny & Clear		
Temperature:		55° F		
Wind (Still, Moderate, High):		0-3 mph		
Humidity (Dry, Moderate, Humid):		Moderate		
Field Activities:				
Description of debris inspection & removal activities: Removed leaves, twigs and mud from upper and lower barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Both screens are bowed but still functional. No cracks or breaks in screens. Barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None.				
Repairs made or need to be made: The heavy accumulation of silt along the barriers needs removed to prevent damage.				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier.			
SUXOS	Mel Lau	Project Manager	Brian Stockwell
Safety Officer	Lew Kovarik		

PHOTO LOG



OVERVIEW OF SAND CREEK BARRIERS UPON ARRIVAL.



PICTURES SHOWING ACCUMULATED DEBRIS ON SCREENS UPON ARRIVAL.



PICTURE SHOWING UXO TECHNICIAN REMOVING ACCUMULATED DEBRIS FROM SCREENS.



PICTURE SHOWING DEBRIS REMOVED FROM SCREEN.



PICTURES SHOWING OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log



PIKA SAFETY TRAINING ATTENDANCE LOG

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

QUARTERLY EFFECTIVENESS EVALUATION REPORT (#4)

(O & M TRIP's #10, #11, & #12)

SEPTEMBER 15, 2010

Quarterly Effectiveness Evaluation Report
Sand Creek Barrier System
Time Critical Response Action (TCRA) for the Rocket Ridge Area of
Open Demolition Area #2

Project No:	W912QR-09-C-0084	QEE Report No:	Vista 04
Date of QEE Site Visit:	9-15-10		
Time Period Covered by QEE Report:	From:	7-28-10	
	To:	9-15-10	
Dates of O&M Trip During Period Covered by QEE Report:		7-28-10	
		8-25-10	
		9-15-10	

Summary of O&M Activities Performed During QEE Report Period:

Materials found on the screens: No munitions related materials were found on screens. Rocks, branches, sticks, and small rocks were found on screens each month.

Barrier integrity: Barrier screens are bowed due to water pressure on leaves-covered screens. No broken or cracked barrier structure components were observed. See photos.

Other changes observed: A build up of soil on the north side of Sand Creek on the up stream side of the west screen is causing the stream water to flow toward the east at that point, (See Photos). Jim McGee will discuss this issue with Mark Patterson and Derek Kinder to determine if corrective action is required. Removal of soil deposited in front of screens is scheduled for Oct. 2010.

Maintenance performed: Removed all materials from screens.

Barrier System Effectiveness Evaluation:

Barrier System condition:

All barrier components are intact and solidly anchored. Most screen panels are bowed due to water pressure building up when water flow is limited because of debris build up. See photos.

The deflection in the screen panels does not limit the effective performance of the barrier system.

Personnel Present During QEE Site Visit:

James D. McGee.....Vista Sciences Corp. (Project Mgr.)
Mek Lau.....Pika UXO Tech
Bruce Freeman.....Pika UXO Tech

QUARTERLY EFFECTIVENESS EVALUATION SEPTEMBER 15, 2010 PHOTOGRAPHIC LOG





Trip Report

Prime Contract No:			Report No.	11
PIKA JOB #:	09-46-169		Date:	08/25/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Cloudy		
Temperature:		70° F		
Wind (Still, Moderate, High):		still		
Humidity (Dry, Moderate, Humid):		Moderate		
Field Activities:				
Description of debris inspection & removal activities: Removed leaves, twigs and mud from upper and lower barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Both screens are bowed but still functional. No cracks or breaks in screens. Barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: The heavy accumulation of silt along the barriers needs removed to prevent damage. Due to the amount of material present, a mini excavator or equivalent will be required to facilitate the removal operations.				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS Safety Officer	Jim Bouvier Cameron Wenzel	Project Manager	Brian Stockwell

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL



PICTURE SHOWING UXO TECHNICIANS REMOVING ACCUMULATED DEBRIS FROM SCREENS.



PICTURE SHOWING DEBRIS REMOVED FROM SCREENS.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	10
PIKA JOB #:	09-46-169		Date:	07/28/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Sunny		
Temperature:		76° F		
Wind (Still, Moderate, High):		still		
Humidity (Dry, Moderate, Humid):		Moderate		
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated mud, leaves and twigs from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Both screens are bowed but still functional. No cracks or breaks in screens. Barrier integrity has not been compromised.				
Assessment of any changes since previous visit: Due to ongoing erosion of the stream bank a heavy accumulation of silt is building on the southern end of each of the barriers. The build up is visible in the attached pictures.				
Repairs made or need to be made: The heavy accumulation of silt needs removed to prevent damage to the barriers. Due to the amount of material present, a mini excavator or equivalent will be required to facilitate the removal operations.				

Remarks:

Visitors: Eileen Mohr (Ohio EPA), Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS	Mel Lau	Project Manager	Brian Stockwell
Safety Officer	Lew Kovarik		

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL



PICTURE SHOWING ACCUMULATED DEBRIS ON SCREEN



PICTURE SHOWING UXO TECHNICIAN REMOVING DEBRIS FROM SCREENS. ALSO VISIBLE IS THE HEAVY ACCUMULATION SILT ALONG THE SCREEN NEAR THE STREAM BANK.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	9
PIKA JOB #:	09-46-169		Date:	06/30/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	White Clouds, Bright and Sunny			
Temperature:	68° F			
Wind (Still, Moderate, High):	still			
Humidity (Dry, Moderate, Humid):	Moderate			
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated leaves and twigs from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: None				

Remarks:

Visitors: none

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS Safety Officer	James Ennis Bruce Freeman	Project Manager	Brian Stockwell

PHOTO LOG



PICTURE SHOWING UXO TECHNICIAN REMOVING DEBRIS FROM SCREEN.



PICTURE OF SCREEN FOLLOWING CLEANUP.



PICTURE SHOWING SCREENS AFTER DEBRIS HAS BEEN REMOVED.

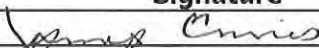

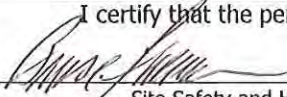
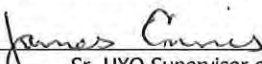


OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log



PIKA SAFETY TRAINING ATTENDANCE LOG

Date: 06/30/10	Instructor(s): James Ennis	Time: 10:00	Log No.: 9		
Site Name & Location: Ravenna Army Ammunition Plant, Ravenna, OH					
Contract No.: 09-46-169		Task Order Number:			
Site Supervisor or SUXOS: James Ennis		SSHO: Bruce Freeman			
Training Provided: <input type="checkbox"/> Initial Site Hazard Training <input type="checkbox"/> Daily Safety Briefing <input checked="" type="checkbox"/> Other: _____ <input type="checkbox"/> Weekly Safety Training <input type="checkbox"/> Task/Hazard-specific Training					
I. TRAINING TOPICS COVERED					
<input type="checkbox"/>	Planned Site Activities	<input type="checkbox"/>	Chemical Hazards	<input type="checkbox"/>	Respirator Use
<input type="checkbox"/>	Physical Safety Hazards	<input type="checkbox"/>	Routes of Chemical Exposure	<input type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Biological Hazards	<input type="checkbox"/>	Chemical Exposure Symptoms	<input type="checkbox"/>	Emergency Procedures
<input type="checkbox"/>	Heat or Cold Stress	<input checked="" type="checkbox"/>	Level of PPE	<input type="checkbox"/>	First Aid Procedures
<input type="checkbox"/>	Site Controls	<input type="checkbox"/>	Types of PPE	<input type="checkbox"/>	Buddy Team Procedures
Other Topics: _____					
II. TRAINING COURSE ATTENDEES					
Name (printed)		Signature		Organization	
James Ennis				PIKA	
Bruce Freeman				PIKA	
III. TRAINING VERIFICATION					
I certify that the personnel listed on this roster have received the safety and health training described above.					
 _____ Site Safety and Health Officer			 _____ Sr. UXO Supervisor or Site Supervisor		

Visitor Sign-In Log

Visitors Sign-In Log

QUARTERLY EFFECTIVENESS EVALUATION REPORT (#2)

(O & M Trip's #4, #5, & #6)

MAY 24, 2010

Quarterly Effectiveness Evaluation Report
Sand Creek Barrier System
Time Critical Response Action (TCRA) for the Rocket Ridge Area of
Open Demolition Area #2

Project No:	W912QR-09-C-0084	QEE Report No:	Vista 02
Date of QEE Site Visit:	5/24/10		
Time Period Covered by QEE Report:	From: Jan 10	1/28/10	
	To: Mar. 10	1-28-10	
Dates of O&M Trip During Period Covered by QEE Report:		1/28/10	
		2/18/10	
		3/25/10	

Summary of O&M Activities Performed During QEE Report Period:

Materials found on the screens: No munitions related materials were found on screens. Rocks, branches, sticks, and small rocks were found on screens each month. Some ice build up was found on screens during the January, February, and March 2010 inspections.

Barrier integrity: Barrier screens are bowed due to water pressure on leaves-covered screens. No broken or cracked barrier structure components were observed. See photos.

Other changes observed: None

Maintenance performed: Removed all materials from screens.

Barrier System Effectiveness Evaluation:

Barrier System condition:

All barrier components are intact and solidly anchored. Most screen panels are bowed due to water pressure building up when water flow is limited because of debris build up. See photos.

The deflection in the screen panels does not limit the effective performance of the barrier system.

Personnel Present During QEE Site Visit:

James D. McGee... Vista Sciences Corp. (Project Mgr.)

James Ennis.....PIKA UXO Tech

Gene Morales..... PIKA UXO Tech

Quarterly Effectiveness Evaluation
MAY 24, 2010
Photographic Log



Trip Report

Prime Contract No:			Report No.	8
PIKA JOB #:	09-46-169		Date:	05/24/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	Bright and Sunny			
Temperature:	72° F			
Wind (Still, Moderate, High):	still			
Humidity (Dry, Moderate, Humid):	Moderate			
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated leaves and twigs from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: None				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS	James "Jiggs" Ennis	Project Manager	Brian Stockwell
Safety Officer	Gene Morales		

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



PICTURE SHOWING ACCUMULATED DEBRIS ON SCREEN.



PICTURE SHOWING THE BUILD UP OF SAND AND ROCK



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	7
PIKA JOB #:	09-46-169		Date:	04/29/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Clear and Sunny		
Temperature:		60° F		
Wind (Still, Moderate, High):		0-3		
Humidity (Dry, Moderate, Humid):		Dry		
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated leaves mud and sticks from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: Left side of stream bed is changing due to sand and gravel accumulation.				
Repairs made or need to be made: None				

Remarks:

Visitors: None

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS Safety Officer	Mel Lau Brian Stockwell	Project Manager	Brian Stockwell

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



PICTURES SHOWING ACCUMULATED DEBRIS ON SCREENS.



PICTURE SHOWING THE BUILD UP OF SAND AND ROCK

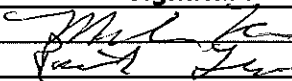
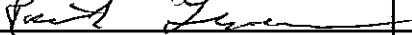
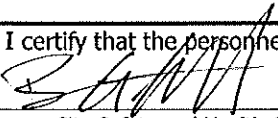
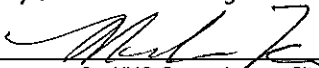


PICTURE SHOWING NARROWING OF STREAM DUE TO SAND AND ROCK BUILDUP.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Date: 04/29/10	Instructor(s): Mel Lau	Time: 10:00	Log No.: 7		
Site Name & Location: Ravenna Army Ammunition Plant, Ravenna, OH					
Contract No.: 09-46-169		Task Order Number:			
Site Supervisor or SUXOS: Mel Lau		SSHO: Brian Stockwell			
Training Provided: <input type="checkbox"/> Initial Site Hazard Training <input type="checkbox"/> Daily Safety Briefing <input checked="" type="checkbox"/> Other: _____ <input type="checkbox"/> Weekly Safety Training <input type="checkbox"/> Task/Hazard-specific Training					
I. TRAINING TOPICS COVERED					
<input checked="" type="checkbox"/>	Planned Site Activities	<input type="checkbox"/>	Chemical Hazards	<input type="checkbox"/>	Respirator Use
<input checked="" type="checkbox"/>	Physical Safety Hazards	<input type="checkbox"/>	Routes of Chemical Exposure	<input type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Biological Hazards	<input type="checkbox"/>	Chemical Exposure Symptoms	<input type="checkbox"/>	Emergency Procedures
<input checked="" type="checkbox"/>	Heat or Cold Stress	<input checked="" type="checkbox"/>	Level of PPE D	<input type="checkbox"/>	First Aid Procedures
<input type="checkbox"/>	Site Controls	<input type="checkbox"/>	Types of PPE	<input type="checkbox"/>	Buddy Team Procedures
Other Topics: _____					
II. TRAINING COURSE ATTENDEES					
Name (printed)		Signature		Organization	
Mel Lau				Pika	
Rusty Tracey				Pika	
III. TRAINING VERIFICATION					
I certify that the personnel listed on this roster have received the safety and health training described above.					
 _____ Site Safety and Health Officer			 _____ Sr. UXO Supervisor or Site Supervisor		

Visitor Sign-In Log

Comments: _____

Trip Report

Prime Contract No:			Report No.	6
PIKA JOB #:	09-46-169		Date:	03/25/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Cloudy and overcast		
Temperature:		49° F		
Wind (Still, Moderate, High):		Still		
Humidity (Dry, Moderate, Humid):		Dry		
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated leaves mud and sticks from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: None				

Remarks:

Visitors: None

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS	Lew Kovarik	Project Manager	Brian Stockwell
UXO Safety Officer	James Ennis		

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



PICTURES SHOWING ACCUMULATED DEBRIS ON SCREENS.



PICTURE SHOWING UXO TECHNICIAN REMOVING DEBRIS FROM SCREEN.



OVERVIEW UPON DEPARTURE.

Safety Training Attendance Log

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	5
PIKA JOB #:	09-46-169		Date:	02/18/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	SNOW & ICE			
Temperature:	31° F			
Wind (Still, Moderate, High):	0-3 Moderate			
Humidity (Dry, Moderate, Humid):	Dry			
<p>Field Activities:</p> <p>Description of debris inspection & removal activities: The majority of the barriers are covered in a thick layer of snow and ice. Snow was approximately 2.5 feet deep at barrier fences. Ice was up to 12 inches thick on both screens. A small section of each barrier is free of ice and snow. The accumulated leaves and thin layer of ice and snow along these exposed sections were removed. No MEC/MD found.</p> <p>Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.</p> <p>Assessment of any changes since previous visit: None</p> <p>Repairs made or need to be made: None</p>				

Remarks:

Visitors: Eileen Mohr (Ohio EPA), Jim McGee (Vista), Mark Patterson (RVAAP) Rex Hufenbach (Camp Ravenna - OHARNG)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS	Mel Lau	Project Manager	Brian Stockwell
UXO Safety Officer	James Bouvier		

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



PICTURE SHOWING UXO TECHNICIAN REMOVING ACCUMULATED
SNOW AND ICE FROM SCREENS.



CLOSEUP OF BARRIER FOLLOWING CLEANUP.



PICTURE SHOWING EXTENT OF BEND IN DOWNSTREAM BARRIER TO DATE.



OVERVIEW UPON DEPARTURE.

Safety Training Attendance Log

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

QUARTERLY EFFECTIVENESS EVALUATION REPORT (#1)

(O & M TRIP's #1, #2, & #3)

FEBRUARY 1, 2010

Quarterly Effectiveness Evaluation Report
Sand Creek Barrier System
Time Critical Response Action (TCRA) for the Rocket Ridge Area of
Open Demolition Area #2

Project No:	W912QR-09-C-0084	QEE Report No:	Vista 01
Date of QEE Site Visit:	1-28-10		
Time Period Covered by QEE Report:	From: Oct. 09	11-24-09	
	To: Jan. 10	1-28-10	
Dates of O&M Trip During Period Covered by QEE Report:		11-24-09	
		12-21-09	
		1-28-10	

Summary of O&M Activities Performed During QEE Report Period:

Materials found on the screens: No munitions related materials were found on screens. Rocks, branches, sticks, and small rocks were found on screens each month. Some ice build up was found on screens during the Jan. 2010 inspection.

Barrier integrity: Barrier screens are bowed due to water pressure on leaves-covered screens. No broken or cracked barrier structure components were observed. See photos.

Other changes observed: None

Maintenance performed: Removed all materials from screens.

Barrier System Effectiveness Evaluation:

Barrier System condition:

All barrier components are intact and solidly anchored. Most screen panels are bowed due to water pressure building up when water flow is limited because of debris build up. See photos.

The deflection in the screen panels does not limit the effective performance of the barrier system.

Personnel Present During QEE Site Visit:

James D. McGee... Vista Sciences Corp. (Project Mgr.)

Mel Lau.....Pika UXO Tech

James Ennis.....Pika UXO Tech

Christy Esler..... Vista Sciences Corp. (Representing Mark Patterson, RVAAP Facility Mgr.)

Eileen Mohr.....Ohio EPA

**Quarterly Effectiveness Evaluation
February 1, 2010
Photographic Log**



CLOSEUP OF UPSTREAM BARRIER FOLLOWING CLEANUP.



PICTURE SHOWING EXTENT OF BEND IN DOWNSTREAM BARRIER TO DATE.

Trip Report

Prime Contract No:			Report No.	4
PIKA JOB #:	09-46-169		Date:	01/28/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	Cloudy, SNOW FLURRIES			
Temperature:	26° F			
Wind (Still, Moderate, High):	0-5 Moderate			
Humidity (Dry, Moderate, Humid):	Dry			
Field Activities:				
Description of debris inspection & removal activities: Removed leaves, sticks, mud and some ice/snow from barrier. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: None				

Remarks:

Visitors: Eileen Mohr (Ohio EPA), Jim McGee (Vista), Christy Esler (Vista-RVAAP)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS	Mel Lau	Project Manager	Brian Stockwell
UXO Safety Officer	James Ennis		

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



CLOSEUP OF UPSTREAM BARRIER PRIOR TO CLEANUP.



PICTURE SHOWING UXO TECHNICIAN REMOVING ACCUMULATED
DEBRIS FROM SCREENS.



CLOSEUP OF UPSTREAM BARRIER FOLLOWING CLEANUP.



PICTURE SHOWING EXTENT OF BEND IN DOWNSTREAM BARRIER TO DATE.



OVERVIEW UPON DEPARTURE.

Safety Training Attendance Log

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	4
PIKA JOB #:	09-46-169		Date:	01/28/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	Cloudy, SNOW FLURRIES			
Temperature:	26° F			
Wind (Still, Moderate, High):	0-5 Moderate			
Humidity (Dry, Moderate, Humid):	Dry			
Field Activities:				
Description of debris inspection & removal activities: Removed leaves, sticks, mud and some ice/snow from barrier. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: None				

Remarks:

Visitors: Eileen Mohr (Ohio EPA), Jim McGee (Vista), Christy Esler (Vista-RVAAP)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS	Mel Lau	Project Manager	Brian Stockwell
UXO Safety Officer	James Ennis		

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



CLOSEUP OF UPSTREAM BARRIER PRIOR TO CLEANUP.



PICTURE SHOWING UXO TECHNICIAN REMOVING ACCUMULATED
DEBRIS FROM SCREENS.



CLOSEUP OF UPSTREAM BARRIER FOLLOWING CLEANUP.



PICTURE SHOWING EXTENT OF BEND IN DOWNSTREAM BARRIER TO DATE.



OVERVIEW UPON DEPARTURE.

Safety Training Attendance Log

[illegible]

Visitor Sign-In Log

Visitors Sign-In Log

Trip Report

Prime Contract No:			Report No.	7
PIKA JOB #:	09-46-169		Date:	04/29/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):		Clear and Sunny		
Temperature:		60° F		
Wind (Still, Moderate, High):		0-3		
Humidity (Dry, Moderate, Humid):		Dry		
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated leaves mud and sticks from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: Left side of stream bed is changing due to sand and gravel accumulation.				
Repairs made or need to be made: None				

Remarks:

Visitors: None

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

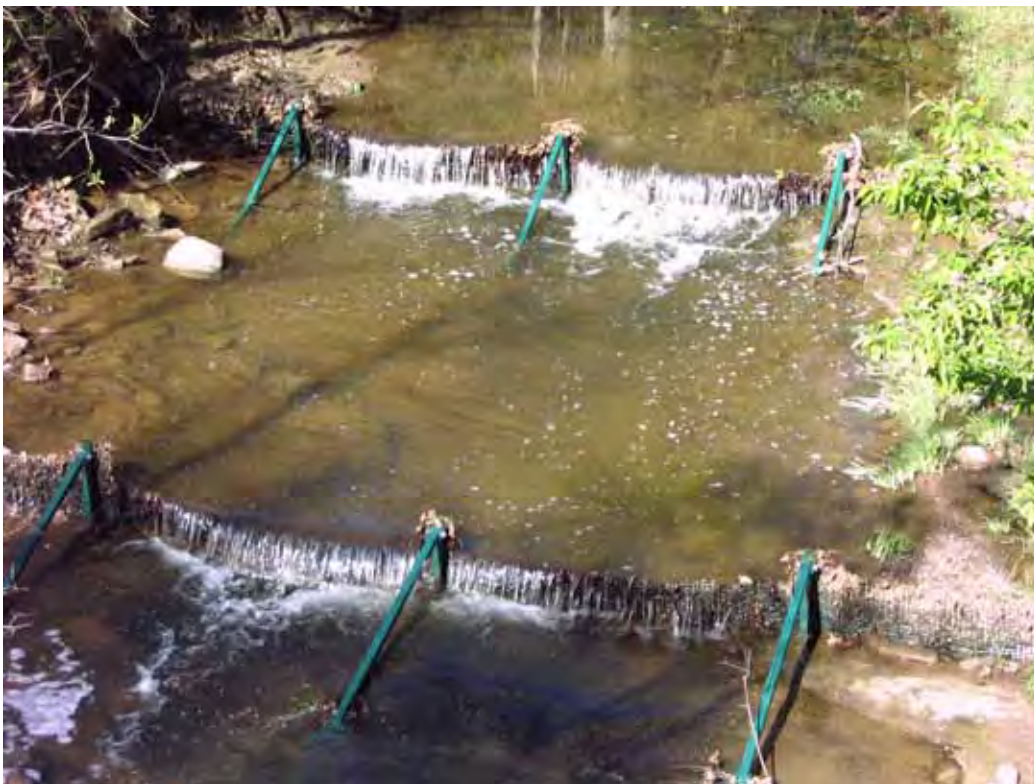
Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS Safety Officer	Mel Lau Brian Stockwell	Project Manager	Brian Stockwell

PHOTO LOG



PICTURES SHOWING SAND CREEK BARRIERS UPON ARRIVAL.



PICTURES SHOWING ACCUMULATED DEBRIS ON SCREENS.



PICTURE SHOWING THE BUILD UP OF SAND AND ROCK


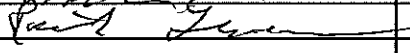
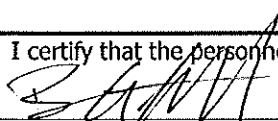
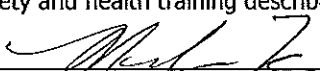


PICTURE SHOWING NARROWING OF STREAM DUE TO SAND AND ROCK BUILDUP.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Date: 04/29/10	Instructor(s): Mel Lau	Time: 10:00	Log No.: 7		
Site Name & Location: Ravenna Army Ammunition Plant, Ravenna, OH					
Contract No.: 09-46-169		Task Order Number:			
Site Supervisor or SUXOS: Mel Lau		SSHO: Brian Stockwell			
Training Provided: <input type="checkbox"/> Initial Site Hazard Training <input type="checkbox"/> Daily Safety Briefing <input checked="" type="checkbox"/> Other: _____ <input type="checkbox"/> Weekly Safety Training <input type="checkbox"/> Task/Hazard-specific Training					
I. TRAINING TOPICS COVERED					
<input checked="" type="checkbox"/>	Planned Site Activities	<input type="checkbox"/>	Chemical Hazards	<input type="checkbox"/>	Respirator Use
<input checked="" type="checkbox"/>	Physical Safety Hazards	<input type="checkbox"/>	Routes of Chemical Exposure	<input type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Biological Hazards	<input type="checkbox"/>	Chemical Exposure Symptoms	<input type="checkbox"/>	Emergency Procedures
<input checked="" type="checkbox"/>	Heat or Cold Stress	<input checked="" type="checkbox"/>	Level of PPE D	<input type="checkbox"/>	First Aid Procedures
<input type="checkbox"/>	Site Controls	<input type="checkbox"/>	Types of PPE	<input type="checkbox"/>	Buddy Team Procedures
Other Topics: _____					
II. TRAINING COURSE ATTENDEES					
Name (printed)		Signature		Organization	
Mel Lau				Pika	
Rusty Tracey				Pika	
III. TRAINING VERIFICATION					
I certify that the personnel listed on this roster have received the safety and health training described above.					
 _____ Site Safety and Health Officer			 _____ Sr. UXO Supervisor or Site Supervisor		

Visitor Sign-In Log

Comments: _____

Trip Report

Prime Contract No:			Report No.	9
PIKA JOB #:	09-46-169		Date:	06/30/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	White Clouds, Bright and Sunny			
Temperature:	68° F			
Wind (Still, Moderate, High):	still			
Humidity (Dry, Moderate, Humid):	Moderate			
Field Activities:				
Description of debris inspection & removal activities: Removed the accumulated leaves and twigs from barriers. No MEC/MD found.				
Barrier Integrity: Barrier is intact. Slight bend in both screens however; barrier integrity has not been compromised.				
Assessment of any changes since previous visit: None				
Repairs made or need to be made: None				

Remarks:

Visitors: none

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier			
SUXOS Safety Officer	James Ennis Bruce Freeman	Project Manager	Brian Stockwell

PHOTO LOG



PICTURE SHOWING UXO TECHNICIAN REMOVING DEBRIS FROM SCREEN.



PICTURE OF SCREEN FOLLOWING CLEANUP.



PICTURE SHOWING SCREENS AFTER DEBRIS HAS BEEN REMOVED.



OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Operations and Maintenance Trip Reports and Quarterly Effectiveness Evaluation Reports

Time Critical Response Action for the Rocket Ridge Area of Open Demolition Area #2 (RVAAP-004-R-01 Open Demolition Area #2 MRS)

Military Munitions Response Program Ravenna Army Ammunition Plant Ravenna, Ohio

Submitted To:
US ARMY CORPS OF ENGINEERS
OMAHA DISTRICT
CENWO-PM
1616 Capitol Avenue, Suite 9000
OMAHA, NE 68102-4901

Prepared By:
Vista Sciences Corporation
205 W. Boutz Rd., Bldg. 3, Ste C
Las Cruces, NM 88005

Contract Number W912QR-09-C-0084



October 2010 – September 2011

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Eileen Mohr, Ohio EPA/PM	1	1	1
Derek Kinder, USACE	1	0	0
Glen Beckham, USACE	1	0	0
Adam Connelly, USACE	1	0	0
Brooke Conway, USACE	1	0	0
Travis McCoun, USACE	1	0	0
Leo Cueto, Vista Sciences Corporation/CEO	1	1	1
	11	4	5

TABLE OF CONTENTS

Section A	Operations and Maintenance Reports
Section B	Quarterly Evaluation and Effectiveness Reports

Section A

Operations and Maintenance Reports

Trip Report

Prime Contract No:			Report No.	1
PIKA JOB #:	09-46-169		Date:	10/14/10
Project:	Operation and Maintenance of the Sand Creek Barrier System			
Environmental Conditions:				
Weather Conditions (Bright Sun, Clear, Overcast, Rain, Snow):	Rain			
Temperature:	56° F			
Wind (Still, Moderate, High):	Still			
Humidity (Dry, Moderate, Humid):	Humid			
<p>Field Activities:</p> <p>Description of debris inspection & removal activities: Removed leaves, twigs, sticks, mud and organic material from upper and lower barriers. No MEC/MD found.</p> <p>Barrier Integrity: Barrier is intact. Both screens are bowed but still functional. Barrier integrity has not been compromised.</p> <p>Assessment of any changes since previous visit: None.</p> <p>Repairs made or need to be made: The heavy accumulation of silt along the barriers needs removed to prevent damage.</p>				

Remarks:

Visitors: Jim McGee (Vista)

Health and Safety

Conducted health and safety meetings and task order meetings every morning, prior to commencement of activities.

Were there any lost time accidents this week? No ☒ Yes ☐.

If "yes", refer attached summary of incident or OSHA report.

Quality Control

Inspections Performed	Non-Conformances	Corrective Action (CA)	Follow-up on CA
Major Problems and Resolution: None			
Schedule for Next Month: Follow on inspection of barrier.			
SUXOS Safety Officer	Mel Lau Lew Kovarik	Project Manager	Brian Stockwell

PHOTO LOG



OVERVIEW OF SAND CREEK BARRIERS UPON ARRIVAL.



PICTURE SHOWING UXO TECHNICIAN REMOVING ACCUMULATED DEBRIS FROM SCREENS.



PICTURE SHOWING DEBRIS REMOVED FROM SCREEN.



PICTURE SHOWING OVERVIEW OF BARRIERS UPON DEPARTURE.

Safety Training Attendance Log

Visitor Sign-In Log

Visitors Sign-In Log

Section B

Quarterly Evaluation and Effectiveness Reports

QUARTERLY EFFECTIVENESS EVALUATION REPORT (#3)

(O & M TRIP's #7, #8, & #9)

JULY 28, 2010

Quarterly Effectiveness Evaluation Report
Sand Creek Barrier System
Time Critical Response Action (TCRA) for the Rocket Ridge Area of
Open Demolition Area #2

Project No:	W912QR-09-C-0084	QEE Report No:	Vista 03
Date of QEE Site Visit:	7-28-10		
Time Period Covered by QEE Report:	From:	4-24-09	
	To:	7-28-10	
Dates of O&M Trip During Period Covered by QEE Report:		4-29-10	
		5-24-10	
		6-30-10	

Summary of O&M Activities Performed During QEE Report Period:

Materials found on the screens: No munitions related materials were found on screens. Rocks, branches, sticks, and small rocks were found on screens each month.

Barrier integrity: Barrier screens are bowed due to water pressure on leaves-covered screens. No broken or cracked barrier structure components were observed. See photos.

Other changes observed: A build up of soil on the north side of Sand Creek on the up stream side of the west screen is causing the stream water to flow toward the east at that point, (See Photos). Jim McGee will discuss this issue with Mark Patterson and Derek Kinder to determine if corrective action is required.

Maintenance performed: Removed all materials from screens.

Barrier System Effectiveness Evaluation:

Barrier System condition:

All barrier components are intact and solidly anchored. Most screen panels are bowed due to water pressure building up when water flow is limited because of debris build up. See photos.

The deflection in the screen panels does not limit the effective performance of the barrier system.

Personnel Present During QEE Site Visit:

James D. McGee.....Vista Sciences Corp. (Project Mgr.)
Lew Koarvik.....Pika UXO Tech
Mek Lau.....Pika UXO Tech
Bruce Freeman.....Pika UXO Tech
Bill Fitzpatrick.....Pika UXO Tech

QUARTERLY EFFECTIVENESS EVALUATION JULY 24, 2010 PHOTOGRAPHIC LOG



