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NAS JACKSONVILLE  
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MINUTES FROM THE 11 AND 12 NOVEMBER 2013 PARTNERING TEAM MEETING NAS  
JACKSONVILLE FL  
11/12/2013  
TETRA TECH

# **NAS JACKSONVILLE PARTNERING TEAM MEETING MINUTES**

**November 11-12, 2013**

**Jacksonville, Florida**

Attendees: Jennifer Conklin, FDEP, Chair  
Tim Curtin, NAS Jacksonville, Timekeeper  
Pete Dao, USEPA  
Eric Davis, CH2M HILL

Todd Haverkost, Resolution Consultants  
Mark Peterson, Tetra Tech  
Adrienne Wilson, NAVFAC SE

Sarah Reed, NAVFAC SE, Tier II  
Tim Flood, TME, Facilitator  
Donald Hardison, Tetra Tech

Mike Singletary, NAVFAC SE  
Julie Johnson, Tetra Tech, Scribe

## **1.0 Team Meeting and Introduction**

1.1 Team member greeting, introductions, and check in – Done

Assignment of Team Roles: Chair – Jennifer Conklin, Gate/Timekeeper – Tim Curtin, Scribe – Julie Johnson

1.2 Read Team Ground Rules – Ground rules were read by Team members and attendees.

## **2.0 Initial Agenda Items**

2.1 Review, submit revisions to, and reach consensus on previous meeting minutes. Done

**Consensus:** Team members approved the minutes from the September 2013 meeting.

2.2 Report on Assigned Action Items and Parking Lot Items. Done

2.3 NAVFAC presents current budget execution plan. Only thing funded is for drums and removal. Nothing else has changed since last meeting.

## **3.0 Agenda**

3.1 Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/ Petroleum SMP: The Tier II Exit Strategy revision is still in the process. Jennifer provided the team a copy of the FDEP document tracker. Adrienne said that she is going to change the PSC Sites with LUCs and no ROD to the following June for due date in the FFASMP. She said she labeled that as an RI instead of an SI in error, but now the sites will require and RI and would like to change the date. Pete said he was ok with that.

3.1.1 Team Development – MBTI Overview

3.2 OU 1

3.2.1 LTM Update and Landfill Maintenance – Tim Curtin - The landfill was mowed, but they did not mow the ditches. Trouble getting the contractor to mow it all. They haven't mowed PSC 51 in a long time. Tim said they have a new BOSS contractor.

Tim said the station hasn't done much with the least tern area; will do more closer to nesting time.

### 3.3 OU 3

- 3.3.1 Groundwater Model Update – Mark Peterson said a massive effort underway for the RI Addendum and it is currently in internal review at Tetra Tech. Mark has concerns about the review time of 90 days being sufficient for the regulators to get through the review of the RI.

Pete suggested Adrienne send an extension request/waiver from the FFA review periods to the regulators for the draft version to adjust the review schedule.

Mark suggested that we could do an on-board review with the regulators.

Working on pulling together the RI Addendum for the Navy review. This document is very large and has quite a lot of figures and tables.

**Action Item:** Adrienne to send an extension request/waiver from the FFA review periods to the regulators for the OU 3 RI Addendum schedule.

- 3.3.2 VI discussion – Eric Davis – Nothing new to report

- 3.3.3 ESTCP Update (Geosyntec) – Tim Curtin said that Geosyntec will be on site the week of December 2<sup>nd</sup> they will be on site to start the injections under the ERN program. They will submit a final report for the ESTCP.

- 3.4 OU 6 – PSC 52 Hangar 1000 – Mark Peterson – Final Hangar 1000 MNA Evaluation Report was mailed to the team 11/7/2013. Looking for approval letters from EPA and FDEP as Final.

- 3.5 OU 7 – PSC 46 Update – DRMO – nothing to report.

- 3.6 OU 8 – PSC 47 – Eric Davis – Hill completed the 1<sup>st</sup> of two semiannual groundwater sampling events in October. Hill transitioned from that event straight into the arsenic in soil investigation at the Pesticide Shop. Due to the government furlough, Eric's presentation will be postponed until the next meeting (January 2014). Eric said they took samples using a triad approach, collecting mixed media samples in accordance with the EPA metals guidance. Real time data using an arsenic test kit was used to fine tune where to collect additional samples; also an XRF was utilized. Eric said they may need have a second mobilization to take additional samples. Eric said they are waiting for data from the lab. The soil cores were collocated from locations where there have been historically high concentrations. Samples were taken from outside the plume, within the plume, and the hottest spots in the plume. Once all the data have been evaluated, Eric will bring the information to the team for discussion. A lot of time was spent preparing the samples to send to the labs. XRD laboratory data is being processed at a laboratory in California.

With regard to the DO conversation/action item, Eric said they really don't know why the DO concentration was elevated at MW10S. Jennifer said she wanted to check the well to see if it is compromised, check construction. Is there a water line, freshwater source, etc. near the well that could explain the increased DO concentration or is there a problem with the construction of the well, mounted allowing rainwater infiltration.

**Action Item:** Eric to check and see if there are any sources near the well JAX47-MW10S (e.g., check construction, mounted, allowing rainwater infiltration, water line nearby, freshwater source, is there a recharge source nearby).

*From the September 2013 Action Item: Response via email to Jennifer Conklin, FDEP: The elevated DO concentrations for the two referenced wells were measured in the field using a calibrated water quality meter, as documented on the purge forms and field notes included in Appendix A; therefore, the data appear to be reliable. DO concentrations for well JAX47-MW10S were below 1 mg/L until April 2011; DO concentrations have been above 2 mg/L since that time (the three most recent sampling events). Well JAX47-MW27S was not included in the post-remedial action groundwater monitoring program until November 2011, and therefore has only*

been sampled twice. DO concentrations in this well were elevated both times (4.00 mg/L and 4.68 mg/L in November 2011 and April 2012, respectively). Monitoring wells JAX47-MW10S and JAX47-MW27S are located outside of the contaminant plume, to the north and northeast side of the site, respectively, so depleted DO due to increased microbial activity would not be expected. Both of the wells will continue to be sampled as part of the groundwater monitoring program for further evaluation.

We further reviewed the available data, which is provided in the Section 3 of the 2012 AGMR (attached), and have concluded the following:

- *Fluctuating DO measurements in borderline anoxic systems is difficult to explain because various physical, chemical, and microbial processes can be in play.*
- *At -10S, the water level elevation was approximately 2 feet lower in October 2011 and 3 feet lower in April 2012, as compared to April 2011. Because this well is flush mounted and has a 10 foot screen, 2 and 3 feet more of screen were exposed during the relatively higher DO sampling events. The lower water levels during those events is likely the root cause, although we may never be able to define the specific physical, chemical, or microbial interactions the resulted in higher DO levels.*
- *There isn't much data for -27S but approximately one-half of the screen at that well was exposed during the two most recent sampling events.*
- *-10S and -27S are outside the plume*
- *In any event, short term fluctuations in water levels and DO are unlikely to adversely affect fate and transport processes over the long term.*
- *Additional data over the long-term may provide more insight into the cause of the elevated DO*

- 3.7 OU 9 – PSC 45 – Building 200 – Mark Peterson – The draft-final Rev. 2 RI Report has been submitted (June 6, 2013). Tetra Tech is waiting on approval from the FDEP; the USEPA approved draft Revision 1 as final. The Final EE/CA was sent to the team and waiting for approval letters.

Eric said the removal action was completed in early September 2013. Having a challenging time getting the waste approved by Alabama facility. They are concerned about the “F” listing codes they gave them. A lot of back and forth conversations and taking a lot of time. Eric said he hopes to have this resolved by tomorrow. Eric said the 90 day clock is running out. Eric said he sent an email to Tim to forward to Jane Beason around the 75 day period to let her know an extension may be warranted. Sending the waste to Louisiana instead of Alabama.

- 3.8 OU 10 – MRP Sites – Mark Traxler –

Mark Traxler is currently working on the RI Phase II Technical Memorandum and expects to have it ready for internal review (Tetra Tech) next week. Mark T. has asked for information from Adrienne and Tim on the progress of the Community Involvement Plan (they need to get notices out to stakeholders by e-mail and the JAX newsletter), but I have not received any updates on when that will happen.

**Action Item:** Tim to talk with Miriam regarding the Community Involvement Plan notices and get back with Mark Peterson and Mark Traxler.

**Action Item:** Julie to resend the OU 10 Holding Pond Technical Memorandum to Adrienne and Tim.

A Draft of the OU 10 Holding Pond Technical Memorandum, regarding sampling and analysis in support of wastewater holding pond construction near the MRP Sites at the Former Machine Gun Range, was sent to Adrienne Wilson and Tim Curtin for review on September 26, 2013 via email.

Todd said they are waiting on signatures and should be submitting the Final SAP very soon. He said they are in the process of obtaining dig permits.

- 3.9 OU 11 – PSC Sites with LUCs and no RODs and PSC 8/55 – Mark Peterson – Adrienne said that she is going to change the PSC Sites with LUCs and no ROD to the following June 2014 for due date in the FFA-SMP. She said she labeled that as an RI instead of an SI in error, but now the sites will require and RI and would like to change the date. Pete said he was ok with that.
- 1.1 Petroleum Sites
- 3.10.1 Gas Hill (PCA 4) – nothing to report
- 3.10.2 Hawkins' Property – Tim said a contractor from an adjacent site have asked for a copy of the most recent monitoring report from September 2013, he also provided a copy to Allene McIntosh at the City of Jacksonville.
- 3.10.3 PCA 25 – Boat House Area – nothing to report.
- 3.10.4 Kemen Test Cell – There is nothing to report; this site is currently not funded.
- 3.10.5 Firefighter Training Facility (OU 2) – nothing to report
- 3.11 PSC 38 – Torpedo Rework Facility – Mark said Tetra Tech is trying to get back into the field.
- 3.12 PSC 56 – NEX Gas Station – There is nothing to report.
- 3.13 PSC 57 – S-3 High Power Turn-up Pad – Todd Haverkost – Todd said he had to do some clarification in the SAP with regards to the language used regarding used oil. Hoping the redline changes will be approved and they will submit the draft final.

#### 4.0 Miscellaneous

- 4.1 Proposed Construction Update – Tim Curtin – Tim gave an update of the proposed and current construction projects.
- NAS Jacksonville won the Installation award for the 3<sup>rd</sup> year. Tim said the attitude at NAS Jacksonville is a winning attitude.
  - Tim said they have submitted their Title V and Hazardous waste permits to FDEP.
  - Frank Sigona retired. Tim said they don't know if they will replace him.
  - Still discussing renovating the golf course. There is no plan yet, but has heard that it will be mostly paving golf paths.
  - Work continues on the Broad Area Maritime Surveillance (BAMS) (unmanned) Facility. The aircraft are not planned to be home based at NAS Jacksonville. The training and operations center is located at NAS Jacksonville. They have a similar mission as the P3s and the P8s.
  - The P8s training and operations center is located at NAS Jacksonville. They had a public meeting regarding the number of squadrons to be home based at NAS Jacksonville . Only 8 people showed up.
  - They are looking to restrict areas in the St Johns River so the rescue divers can train without obstacles.
  - The airfield will be shut down and planes relocated to Cecil Commerce Center sometime in FY15 to allow runway repairs at NAS Jacksonville.
  - The storms sewers and roads are under repair near Hwy 17 near the warehouses.
  - Going to replace the mooring eyes near Area E. They will be generating waste soil. Started in September and should be completed in April 2014.
  - Going to put walls up around the welding shop near the helicopter hangar.

- 4.2 Tier II Update – Sarah Reed – Last meeting in September 2013. David Criswell is not traveling much for Tier II.

Reorganization and Funding Updates:

FDEP – The petroleum group has reorganized. Other reorganizations in the districts have already occurred. Rules changes are forthcoming; two major changes are being proposed at this time. Information to get new contractors on board will be coming out in the near future. The other rule change is looking for ways to put sites in long-term monitoring.

EPA – Serious FTE reductions are being planned for FY 2015 for the entire EPA. Travel is being forward-funded through November. The new ROC4 contract will be in place by December, but not up and running until March. Debbie Vaughn-Wright retired at the end of July, and Patsy Goldberg is scheduled to retire in December.

Navy – Projects are funded for FY 2014 at the same levels as last year (on paper). There will be cuts, but how much and where are not known at this point. Navy regions are being reorganized; Navy Region Midwest is being eliminated. NAVFAC is going through reorganization, but the extent is not known at this time. A shift of installations within NAVFAC is pending. Navy travel is still being scrutinized.

BRAC – BRAC has a new director. BRAC is set up in East (split between Charleston and Philadelphia) and West (San Diego). The BRAC East office will be moving to a smaller space in Building 247 at the Charleston Air Force Base (Joint Base Charleston). The PMO group will be down to five people after January. The project budget was not changed from last year; no major cuts have been discussed.

Rich May is leaving the team and will be replaced as a Tier II link. Debbie Humbert was transitioned onto the team in his place. The Team switched the links around. Jacksonville's links will remain the same, Sarah and Robbie Darby as alternate.

The Exit Strategy, Arnie asked for feedback. The team decided to reduce the milestones they were tracking. Arnie is coming up with a template with Business Rules to present to the Tier I teams. It will be a Microsoft Project database and it should be simple to update the milestones. Arnie plans to get with each team for training. The goal is to have something to the teams by the end of the calendar year.

The Petroleum SMP was submitted and comments were received from FDEP.

- 4.3 Institutional Controls Implementation Plans Update – Tim Curtin – One more inspection to complete and then Tim will send the quarterly reports to EPA and FDEP.
- RCRA Activities – Tim Curtin – discussed previously. Tim said they have submitted their Title V and Hazardous waste permits to FDEP.
- 4.4 Exit Strategy Review –Tier II has decided to reduce the milestones they were tracking. Arnie is coming up with a template with Business Rules. It will be a Microsoft Project database and it should be simple to update the milestones. Arnie plans to get with each team for training. Goal to have something to the teams by the end of the calendar year
- 4.5 BOA Contracts Update and Schedule – Not much to report. Adrienne sent out an email with the Solutions Schedule.
- 4.6 CNO Award –
- 1) How well the nominee managed the program
  - 2) The nominee's technical merits
  - 3) How well the nominee supported the military readiness/civil works mission.
  - 4) How effectively the nominee disseminated lessons learned to others.

- 5) The nominee's success in involving base personnel, residents, and the local community in the program.
- 6) The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

Mike S. thinks the VI program would be a good main point, ESTCP projects looking at source distribution, the previous being a setup to the remediation, and the refinement of the CSM, major optimization effort.

Due date is Wednesday, November 27, 2013.

Assignments:

- VI – CH2M Hill
- ESTCP – Mike Singletary
- OU 3 RI Addendum CSM – Mark Peterson
- Intro – Tim and Adrienne
- Resolutions – Technical Editing and Production

Think of graphics to imbed into the document.

**Action Item:** Mark to send Todd, Tim, and Adrienne the OU 3 historical timeline by 11/14/2013

Schedule:

- 11/19/13 drafts due to the entire Partnering Team
- 11/20/13 telecom 2:00 pm – Partnering Team
- 12/3/13 final draft due to NAVFAC, but Sarah will confirm with Camille.

**Action Item:** Julie set up conference call for Tuesday 11/20/13 at 2:00 pm.

**Action Item:** Sarah to speak with Camille regarding the CNO award due date flexibility (shift to December 4, 2013, if possible).

## 5 Meeting Closing

- 5.1 Review Meeting Consensus Items – Done
- 5.2 Review Meeting Understandings – None
- 5.3 Review Action Items – Done
- 5.4 Next Meeting Proposed Agenda Changes
- 5.5 Set the future meeting dates in advance

Meeting Date	Meeting Time	Location	Meeting Chairman
01/14/14	1 p.m. to 5:00 p.m.	Jacksonville	Tim Curtin
01/15/14	8:00 a.m. to 12:00 noon		
03/18/14	1 p.m. to 5:00 p.m.	Jacksonville	Pete Dao
03/19/14	8:00 a.m. to 12:00 noon		

Meeting Date	Meeting Time	Location	Meeting Chairman
5/13/14 5/14/14	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	Atlanta	Eric Davis
7/15/14 7/16/14	1 p.m. to 5:00 p.m. 8:00 a.m. to 12:00 noon	Jacksonville	Todd Haverkost

1.6 Set the next meeting location, duration, and roles

- Location – Jacksonville
- Dates – January 14-15, 2014
- Duration – 2 days
- Chair – Tim Curtin
- Gate/Timekeeper – Pete Dao
- Scribe – Julie Johnson

5.6 Facilitator Plus/Deltas – Done

**Plus**

Finishing early  
 Training  
 CNO Award Planning  
 Bagels  
 Jennifer as Chair

**Deltas**

Cold weather  
 Adrienne's Flat Tire  
 Tuesday night storm  
 No team logo

<b>Consensus Item No.</b>	<b><u>CONSENSUS ITEMS</u></b>
C-11113	Team approves September 2013 meeting minutes as final.
C - 21113	The team has no grounds to ask that the slabs remain at the Hangars 113, 114, and 115. The plans are to plant grass in the slab footprint.
<b>Agenda Item No.</b>	<b><u>PARKING LOT</u></b>
	A potential success story, identifying plume reduction project at OU 3 Area A, which will reduce requirements for HAZWOPER training (CNO award due in December 2013). Team due every other year and the installation done every year.
	Yellow Water Weapons Housing Area – Part of Site 15 (sweeping for MEC) Natural Resource Corridor. Public Safety. Tim said the station is looking at getting rid of that area. Tim said nobody wants the road (causing hold up). Dave said the main concern is the part of yellow water Site 15 extends out to the area between the ball field and the old fence line. Confirm that the LUCs will be acceptable for both sites. LUC = only good for a pass through (hiking, biking, horseback riding; no attractors). Tim checking on status of transfer (November 2012). Tim said it has to be approved by congress. Expecting congressional approval to transfer ownership from the Navy to the PPV contractor (housing company) the middle of April 2013. Dave concerned about the Site 15 encroaching the housing area (Tim said that Site 15 does not encroach the PPV housing area). Tim said that part of the property will not be transferred. Dave said that multiple property owners may have to sign off on the permit. <b>Update 05-2013:</b> With Dave departing the Team, this will transition to Pete. <b>Update 11-2013</b> – Pete said that Dave Criswell told him there was a LUC for the entire Site 15 and he said the sliver of land is included in the LUC. Adrienne said the cleanup included the sliver. Still no paperwork to confirm this. Pete said they have all the information that can be obtained to create a LUC RD for the sliver of land.
9/18/13-OU 2	Per Pete: OU 2-Firefighter Training Facility, foam (AFFF/PFOS/PFOA) have health advisories for cleanup numbers.

**ACTION ITEMS**

<b>Action Item No.</b>	<b>Responsible Party</b>	<b>Status</b>	<b>Due Date</b>	<b>Site</b>	<b>Action Item</b>
<b>May 20-21, 2013</b>					
A-10513	Julie	Working	TBD		Julie is to provide a 1- to 2-page summary of each site to Team members.
A-50513	Mike S.	Done	TBD		Mike S. is to send Team members and Dave Grabka the ESTCP reports.
<b>November 12-13, 2013</b>					
A-11113	Adrienne	Done	Dec 1	OU 3 RI Addendum	Adrienne to send an extension request/waiver from the FFA review periods to the regulators for the OU 3 RI Addendum schedule.
A-21113	Eric	Working	By next meeting	PSC 47	Eric to check and see if there are any sources near the well JAX47-MW10S (e.g., check construction, mounted, allowing rainwater infiltration, water line nearby, freshwater source, is there a recharge source nearby).

### ACTION ITEMS

Action Item No.	Responsible Party	Status	Due Date	Site	Action Item
A-31113	Tim Curtin	Done	By next meeting	MRP CTO	Tim to talk with Miriam regarding the Community Involvement Plan notices and get back with Mark Peterson and Mark Traxler.
A-41113	Julie	Done		OU 10 MRP sites	Julie to resend the OU 10 Holding Pond Technical Memorandum to Adrienne and Tim.
A-51113	Mark Peterson	Done	11/14/13	CNO Award	Mark to send Todd, Tim, and Adrienne the OU 3 historical timeline by 11/14/2013
A-61113	Julie	Done	11/13/13	CNO Award telecom	Julie set up conference call for Tuesday 11/20/13 at 2:00 pm
A-71113	Sarah	Done	11/14/13	CNO Award due date	<p>Sarah to speak with Camille regarding the CNO award due date flexibility (shift to December 3, 2013, if possible).</p> <p><b><i>Email from Sarah Reed 11/13/13: I talked to Camille this afternoon and she said she had a trip planned to DC that week and was planning to physically take the CNO nomination packages with her, but this trip has been canceled therefore the nominations do not need to be to her by 27 November. The nomination package will need to be mailed out on Wednesday, 4 December to get to CNIC/NAVFAC HQ by Friday, 6 December. But that is the only requirement. If you involve PAOs on the earlier Drafts, it may move the process along quicker. Please let me know if you have any questions.</i></b></p>

**NAS Jacksonville Team Agenda  
Jacksonville, Florida  
January 14-15, 2014**

**Chair – Tim Curtin  
Gate/Timekeeper – Pete Dao  
Scribe – Julie Johnson**

<b>Item</b>	<b>Description</b>	<b>Presenter</b>	<b>Time</b>	<b>Objective</b>
<b>1.0</b>	<b>TEAM MEETING AND INTRODUCTIONS</b>	Team		
1.1	Team member Greeting, Introductions, and Check-in; Guest Introductions	Team		
1.2	Assignment of Team Meeting Organization: Chair, Gate/Time Keeper, Scribe, and Prioritize Agenda.	Chair		
1.3	Read Team Ground Rules	Team		
<b>2.0</b>	<b>INITIAL AGENDA ITEMS FOR EACH MEETING</b>			
2.1	Review, submit revisions to, and reach consensus on previous meeting minutes	Team		
2.2	Reports on assigned action items and parking lot items	Team		
2.3	NAVFAC presents current budget execution plan	Adrienne		
<b>3.0</b>	<b>AGENDA</b>			
3.1	Schedules/SCAP/Exit Strategy/FDEP Document Tracker/FFA SMP/Petroleum SMP, FFA Review	Team		
	3.1.1 Team Development –Training	Tim Flood		
3.2	OU 1 – LTM Update and Landfill Maintenance			
3.3	OU 3			
	3.3.1 Groundwater Model Update	Donald		
	3.3.2 Vapor Intrusion Update	Eric		
	3.3.3 ESTCP Update	Geosyntec		
3.4	OU 6 – PSC 52 – Hangar 1000	Donald		
3.5	OU 7 – PSC 46 DRMO update	Eric		
3.6	OU 8 – PSC 47 – Pesticide Shop	Eric, Keith Dobson	9 am Day 2	
3.7	OU 9 – PSC 45-Building 200 Wash Rack (groundwater only)			
3.8	OU 10 - MRP Sites	Todd/Mark T.		
3.9	OU 11 - PSC Sites with LUCs and no RODs and PSC 8/55 –	Laura	Day 1 0.5 hour	
3.10	Petroleum Sites			
	Gas Hill	Eric		
	Hawkins			
	PCA 25			
	Kemen Test Cell			
	Firefighter Training Facility (OU 2)			
3.11	PSC 38 – Torpedo Rework Facility	Alan		
3.12	PSC 56 – NEX Gas Station			
3.13	PSC 57 – S-3 High Power Turn-up Pad	Todd		
<b>4.0</b>	<b>MISCELLANEOUS</b>			
4.1	Proposed Construction Update	Tim		
4.2	Tier II Update	Sarah		
4.3	Institutional Controls Implementation Update	Tim		

Item	Description	Presenter	Time	Objective
4.4	RCRA Activities			
4.5	Exit Strategy Review	Mark		
4.6	BOA Contracts Update	Tim/Adrienne		
4.7	CNO Award	Adrienne		
4.8	Tier II Presentation discussion. Presentation is scheduled for 3/20/14 1:00 pm at Resolutions office in Jacksonville	Adrienne		
<b>5.0</b>	<b>MEETING CLOSING</b>			
5.1	Review Meeting Consensus Items			
5.2	Review Meeting Understandings			
5.3	Review Action Items			
5.4	Next Meeting Proposed Agenda			
5.5	Set Dates for Future Meetings			
5.6	Set the Next Meeting Location, Duration, and Roles			
5.7	Facilitator Plus/Deltas			

### NAS Jacksonville Partnering Team Document Review Status

Date of Status: 15-Jan-2014

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of draft (45 days to comment)	FFA Deadline for Comments of draft (90 days to comment)	Navy Deadline for Redline & RTC& draft final (45 days)	Navy Deadline for draft final submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Comments Received from				
										FDEP	EPA	NAVFAC SE RPM	NAVFAC SE Chemist	NAS JAX
<b>Tetra Tech Documents</b>														
1	Draft OU 4 LUC RD (email to Pete Dao) Sent hardcopy 2/2/12 CTO 19 AND 154	email 12/30/11 hard copy (2/2/12)	30-Dec-2011								X	X	NA	X
2	Draft OU 3 LUC RD CTO 19 AND CTO 154	hard copy	30-Jan-2012								X	X	NA	X
3	Final Annual Monitoring Report - Hangar 1000 - RTC from team CTO 152A - looking for regulatory letters approving the final version	hard copy	10-Oct-2011									X	NA	X
4	Final Site Assessment Report for PCA 25 CTO 0003 - looking for regulatory letters approving the final version	hard copy	10-Sep-2012											
5	Draft Redline Rev. 1 Potential Source of Contamination (PSC) 55 SI Report and Response to Comments CTO JM19	hard copy	24-Apr-2013								X		NA	
6	Draft-Final Rev. 2 Potential Source of Contamination (PSC) 45 RI Report CTO 112 - looking for regulatory (FDEP) letter approving the final version	hard copy	6-Jun-2013	4-Feb-2013	21-Mar-2013	5-May-2013	20-May-2013	9-Jun-2013	9-Jul-2013		X	X	NA	X
7	Final Annual Monitored Natural Attenuation Evaluation Report for Hangar 1000 CTO JM66 - looking for regulatory letter (FDEP) approving the final version	hard copy	7-Nov-2013										NA	
8	Draft Potential Source of Contamination (PSC) 38 RI/FS Report CTO JM19 - Extension letter to be submitted to Regulatory agencies	hard copy	27-Jun-2013	30-Jul-2013	26-Sep-2013	10-Nov-2013	25-Nov-2013	15-Dec-2013	25-Dec-2013		X		NA	
9	Final EE/CA for PSC 45 CTO 112	hard copy	7-Oct-2013	5-Oct-2013	19-Nov-2013	3-Jan-2014	18-Jan-2014	7-Feb-2014	17-Feb-2014				NA	
10	Draft to Navy only - Holding Pond Technical Memorandum - Summary of Sampling and Analysis Conducted in Support of Wastewater Holding Pond Construction near MRP Sites at the Former Machine Gun Range Complex, OU10 CTO JM69	email electronic	26-Sep-2013											
11	Draft RI Phase II Technical Memorandum OU 10 CTO JM69		15-Dec-2013											
12	Draft Remedial Investigation Addendum OU 3 CTO 154		30-Dec-2013	14-Feb-2014	13-Mar-2014	27-Apr-2014	12-May-2014	1-Jun-2014	11-Jun-2014					
<b>CH2MHILL Documents</b>														
1	Draft Final Building 106 AS/SVE System Decommissioning Work Plan	email	5-Jul-2011	NA	NA	NA	NA	NA	NA			X	X	X
2	Draft Final VI Work Plan	NIRIS and HC replacement pages	24-May-2012		N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
3	Draft Final VI UFP-SAP	NIRIS and HC replacement pages	24-May-2012		N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
4	Draft Final LUC RD - DRMO	hard copy	30-Jan-2012	NA	NA	NA	NA	NA	NA			X	X	X
5	DRMO Letter to EPD Stating Start Date of Remedy	email	March? Letter Prepared by HILL, to be submitted by Navy	NA	NA	NA	NA	NA	NA	NA		X	X	X
6	Draft Final Pesticide Shop Work Plan Revision XX (JM40)	email	18-Dec-2012	NA	NA	NA	NA	NA	NA			X	X	X
7	Draft Final Building 106 AS/SVE System Decommissioning Construction Completion Report	hard copy	30-Sep-2012	N/A	N/A	N/A	N/A	N/A	N/A					
8	Draft 2012 Gas Hill Annual Groundwater Monitoring Report	hard copy	5-Nov-2012	N/A	N/A	N/A	N/A	N/A	N/A			X	N/A	X
9	Draft 2012 Pesticide Shop Annual Groundwater Monitoring Report	hard copy	18-Dec-2012	N/A	N/A	N/A	N/A	N/A	N/A			X	N/A	X
10	Draft OU3 Vapor Intrusion Evaluation Report	hard copy	16-Nov-2012	N/A	N/A	N/A	N/A	N/A	N/A			X	N/A	X
11	Draft DRMO RACR	hard copy	19-Apr-2012	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	N/A	X
12	Draft DRMO Project Completion Report	hard copy	9-Jan-2012	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	N/A	X
13	Draft DRMO After Action Report	hard copy	9-Jan-2012	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	N/A	X
14	Draft, Rev 1 2012 Gas Hill Annual Groundwater Monitoring Report	hard copy	7-Feb-2013	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
15	Final 1 2012 Gas Hill Annual Groundwater Monitoring Report	email	1-Jul-2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
16	Draft, Rev 1 2012 Pesticide Shop Annual Groundwater Monitoring Report	hard copy	21-Feb-2013	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
17	Final 2012 Pesticide Shop Annual Groundwater Monitoring Report	email	23-Aug-2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18	Draft, Rev 1 OU3 Vapor Intrusion Evaluation Report	hard copy	7-Mar-2013	N/A	N/A	N/A	N/A	N/A	N/A	X	X	N/A	N/A	N/A
19	Final OU3 Vapor Intrusion Evaluation Report	email	22-Aug-2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Draft JM10 Combined Work Plan	hard copy	18-Jun-2013	NA	NA	NA	NA	NA	NA		X	X	NA	X
20	Final DRMO Remedial Action Completion Report	hard copy	8-Mar-2013	N/A	N/A	N/A	N/A	N/A	N/A				N/A	

## NAS Jacksonville Partnering Team Document Review Status

Date of Status: 15-Jan-2014

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of draft (45 days to comment)	FFA Deadline for Comments of draft (90 days to comment)	Navy Deadline for Redline & RTC& draft final (45 days)	Navy Deadline for draft final submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Comments Received from				
										FDEP	EPA	NAVFAC SE RPM	NAVFAC SE Chemist	NAS JAX
21	Final DRMO Project Completion Report	hard copy	22-Mar-2013	N/A	N/A	N/A	N/A	N/A	N/A				N/A	

Resolution Consultants Documents														
1	Draft PSC 57 SI UFP-SAP CTO JM19	hard copy	5-Feb-2013	22-Mar-2013	6-May-2013	20-Jun-2013	5-Jul-2013	26-Jul-2013	16-Dec-2013	X	X	X	X	X
2	Draft UXO 2, 4, & 6 RI UFP-SAP CTO JM08	hard copy	15-Mar-2013	29-Apr-2013	13-Jun-2013	28-Jul-2013	12-Aug-2013	1-Sep-2013	29-Nov-2013	X	X	X	X	X

X = Comments have been received from this reviewer  
 Blank = No comments have been received from this reviewer  
 Shaded - Documents to be submitted in the next 30 days.  
 NA = no review required by this reviewer.

\*\* The regulators will issue a letter approving the draft-final as final if no dispute resolution.

**FFA Review time restrictions:**

- The draft = 90 days to comment,
  - Within 60 days the Navy shall submit red line document and the response to comments, then submit the draft final by the end of the 60 days,
  - There are 30 days to final or dispute resolution from issuance of draft final.
  - The regulators will issue a letter approving the draft-final as final if no dispute resolution.
  - Adrienne will include dates in her transmittal letters.
- Source: NAS Jacksonville Partnering Minutes March 2012.

NAS Jacksonville Partnering Team Document Review Status

Date of Status: 05-Nov-2013

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of Draft (45 days to comment)	FFA Deadline for Comments of Draft (90 days to comment)	Navy Deadline for Redline & RTC & Draft Final (45 days)	Navy Deadline for Draft Final Submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Draft SMP Deadline (Added July 2013)	Final SMP Deadline (Added July 2013)	Comments Received from					Solutions-IES To Do	NAVFAC To Do	Budget	Invoiced	
												FDEP	EPA	NAVFAC SE RPM	NAVFAC Legal	NAVFAC SE Chemist					NAS JAX
				Solutions-IES	LTM																
1	B101S APP/HASP - <b>Complete</b>	Draft: email Final: HC+CD	23-Mar-2012 6-Jun-2012	7-May-2012	21-Jun-2012	5-Aug-2012	20-Aug-2012	30-Aug-2012	9-Sep-2012			NA	NA	NA	NA	NA	X				
2	B101S UFP SAP - <b>Complete</b>	Draft: email Draft Rev 2: HC+CD Final: HC+CD	23-Mar-2012 6-Jun-2012 17-Aug-2012	7-May-2012	21-Jun-2012	5-Aug-2012	20-Aug-2012	30-Aug-2012	9-Sep-2012			NA	NA	X	NA	X	X				
3	B101S Groundwater Monitoring Results, June 2012 - <b>Complete</b>	Draft: email Final: HC+CD	18-Jul-2012 19-Jul-2012	NA	NA	NA	NA	NA	NA			X	NA	NA	NA	NA	X				
4	B101S Groundwater Monitoring Results, December 2012 - <b>Complete</b>	Draft: email Final: HC+CD	28-Feb-2012 23-Jan-2013	NA	NA	NA	NA	NA	NA			X	NA	NA	NA	NA	X				
5	FFTF APP - <b>Complete</b>	Draft: email Final: HC+CD	25-Jan-2012 18-Jan-2013	10-Mar-2012	24-Apr-2012	8-Jun-2012	23-Jun-2012	3-Jul-2012	13-Jul-2012			NA	NA	NA	NA	NA	X			\$ 67,464.00	\$ 66,255.47
6	FFTF UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	25-Jan-2012 26-Apr-2012	10-Mar-2012	24-Apr-2012	8-Jun-2012	23-Jun-2012	3-Jul-2012	13-Jul-2012				NA	X	NA	X	X		Request comments from FDEP on Draft Final UFP SAP		
7	FFTF Semi-Annual Groundwater Monitoring Report (September 2012)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	14-Dec-2012 10-Jan-2013	28-Feb-2013	14-Mar-2013	28-Apr-2013	13-May-2013	23-May-2013	2-Jun-2013			X	NA	X	NA	NA	X	Prepare Final report			
8	FFTF Annual Groundwater Monitoring Report (September 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Nov-2013	14-Jan-2014	28-Feb-2014	14-Apr-2014	29-Apr-2014	9-May-2014	19-May-2014	31-Dec-2013	31-Mar-2014		NA		NA	NA		Prepare Draft report			
9	Gas Hill APP - <b>Complete</b>	Draft: email Final: HC+CD	1-May-2012 18-Jan-2013	15-Jun-2012	30-Jul-2012	13-Sep-2012	28-Sep-2012	8-Oct-2012	18-Oct-2012			NA	NA	NA	NA	N/A	X				
10	Gas Hill UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	1-May-2012 10-Jan-2013	15-Jun-2012	30-Jul-2012	13-Sep-2012	28-Sep-2012	8-Oct-2012	18-Oct-2012			X	N/A	X	NA	X	X	Prepare Final UFP SAP			
11	Gas Hill Semi-Annual Groundwater Monitoring Report (September 2012)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Nov-2012 8-Jan-2013	14-Jan-2013	28-Feb-2013	14-Apr-2013	29-Apr-2013	9-May-2013	19-May-2013			X	N/A	X	NA	NA	X	Prepare Final report			
12	Gas Hill Semi-Annual Groundwater Monitoring Report (March 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	15-May-2013	29-Jun-2013	13-Aug-2013	27-Sep-2013	12-Oct-2013	22-Oct-2013	1-Nov-2013	31-Jan-2014	31-Mar-2014		NA	X	NA	NA		Prepare Draft Rev 2 report			
13	PCA 25 UST Site 119 APP - <b>Complete</b>	Draft: email Final: HC+CD	16-May-2012 18-Jan-2013	30-Jun-2012	14-Aug-2012	28-Sep-2012	13-Oct-2012	23-Oct-2012	2-Nov-2012			N/A	NA	NA	NA	NA	X				
14	PCA 25 UST Site 119 UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	16-May-2012 9-Jul-2012 26-Sep-2012	30-Jun-2012	14-Aug-2012	28-Sep-2012	13-Oct-2012	23-Oct-2012	2-Nov-2012			X	NA	X	NA	X	X	Distribute FDEP signature page			
15	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (August 2012)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	1-Nov-2012 8-Jan-2013	16-Dec-2012	30-Jan-2013	16-Mar-2013	31-Mar-2013	10-Apr-2013	20-Apr-2013			X	NA	X	NA	NA	X	Prepare Final report		\$ 246,593.00	\$ 126,613.80
16	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (November 2012)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	16-Jan-2013 13-Jun-2013	2-Mar-2013	16-Apr-2013	31-May-2013	15-Jun-2013	25-Jun-2013	5-Jul-2013			X	NA	X	NA	NA			Request comments Tim on Draft Rev 2 Report		
17	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (March 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	14-May-2013 13-Jul-2013	28-Jun-2013	12-Aug-2013	26-Sep-2013	11-Oct-2013	21-Oct-2013	31-Oct-2013			X	NA	X	NA	NA			Request comments from Tim on Draft Rev 2 Report		
18	PCA 25 UST Site 119 Annual Groundwater Monitoring Report (June 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	9-Oct-2013	23-Nov-2013	7-Jan-2014	21-Feb-2014	8-Mar-2014	18-Mar-2014	28-Mar-2014	30-Dec-2013			NA		NA	NA			Provide comments on Draft report. Request comments from Tim.		
19	Hawkins Property APP - <b>Complete</b>	Draft: email Final: HC+CD	15-Jun-2012 29-Jan-2013	30-Jul-2012	13-Sep-2012	28-Oct-2012	12-Nov-2012	22-Nov-2012	2-Dec-2012			NA	NA	NA	NA	NA	X				
20	Hawkins Property Groundwater Monitoring Report (June 2012 and January 2012)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	14-Mar-2013 22-Mar-2013 25-Sep-2013	28-Apr-2013	2-Sep-2015	17-Oct-2015	1-Nov-2015	11-Nov-2015	21-Nov-2015			X	X	X	NA	NA	X	Final report sent 9/25/13			
21	Hawkins Property Groundwater Monitoring Report (July 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	10-Oct-2013	24-Nov-2013	8-Jan-2014	22-Feb-2014	9-Mar-2014	19-Mar-2014	29-Mar-2014	31-Jan-2014					NA	NA			Provide comments on Draft report. Request comments from Tim.		
22	OU-5 PSC 51, OU-1 PSCs 26&27, OU-3 Area A APP - <b>Complete</b>	Draft: email Final: HC+CD	14-Jun-2012 29-Jan-2013	29-Jul-2012	12-Sep-2012	27-Oct-2012	11-Nov-2012	21-Nov-2012	1-Dec-2012			NA	NA	NA	NA	NA	X				
23	OU-5 PSC 51, OU-1 PSCs 26&27, OU-3 Area A UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	13-Jul-2012 5-Oct-2012	27-Aug-2012	11-Oct-2012	25-Nov-2012	10-Dec-2012	20-Dec-2012	30-Dec-2012				NA	X	NA	X	X		Request comments from FDEP on Draft Final UFP SAP		
24	OU-5 PSC 51 2012 Annual Groundwater Monitoring Report	Draft: email Draft Rev 2: HC+CD Final: HC+CD	2-Oct-2012 23-Oct-2012	16-Nov-2012	31-Dec-2012	14-Feb-2013	1-Mar-2013	11-Mar-2013	21-Mar-2013			X	X	X	NA	NA	X	Prepare Final report		\$ 45,318.00	\$ 45,318.00
25	OU-1 PSCs 26&27 2012 Annual Groundwater Monitoring Report	Draft: email Draft Rev 2: HC+CD Final: HC+CD	26-Oct-2012 9-Jan-2013	10-Dec-2013	24-Jan-2013	10-Mar-2013	25-Mar-2013	4-Apr-2013	14-Apr-2013				NA	X	NA	NA	X		Request comments from FDEP on Draft Rev 2 Report		
26	OU-3 Area A 2012 Annual Groundwater Monitoring Report	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Oct-2012 8-Jan-2013	14-Dec-2012	28-Feb-2013	14-Mar-2013	29-Mar-2013	8-Apr-2013	18-Apr-2013			X	X	X	NA	NA	X	Prepare Final report			
27	Polishing Pond APP - <b>Complete</b>	Draft: email Final: HC+CD	9-Nov-2012 9-Jan-2013	NA	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	X				
28	Polishing Pond UFP SAP - <b>Complete</b>	Draft: email Draft Rev 2: HC+CD Final: HC+CD	9-Nov-2012 11-Dec-2012 11-Jan-2013	NA	NA	NA	NA	NA	NA			X	NA	X	NA	X	X			\$ 21,235.00	\$ 21,235.00
29	Polishing Pond January 2013 Letter Report - <b>Complete</b>	Draft: email Final: HC+CD	11-Feb-2013 12-Feb-2013	NA	NA	NA	NA	NA	NA			X	NA	NA	NA	NA	X				

NAS Jacksonville Partnering Team Document Review Status

Date of Status: 05-Nov-2013

No.	Document Name	Distribution (email or hardcopy)	Date Submitted (or to be submitted)	Deadline for Comments of Draft (45 days to comment)	FFA Deadline for Comments of Draft (90 days to comment)	Navy Deadline for Redline & RTC & Draft Final (45 days)	Navy Deadline for Draft Final Submittal (60 days)	Navy Deadline for Extension Letter (10 days prior to deadline for Final or 20 days after DF submittal)	Deadline for Final letter of approval (30 days) **	Draft SMP Deadline (Added July 2013)	Final SMP Deadline (Added July 2013)	Comments Received from					Solutions-IES To Do	NAVFAC To Do	Budget	Invoiced					
												FDEP	EPA	NAVFAC SE RPM	NAVFAC Legal	NAVFAC SE Chemist					NAS JAX				
				Solutions-IES	LTM																				
30	PSC 46, PSC 47, PSC 48, PSC 52, OU-3 Areas B&G APP	Draft: email Final: HC+CD	3-May-2013 31-May-2013	17-Jun-2013	1-Aug-2013	15-Sep-2013	30-Sep-2013	10-Oct-2013	20-Oct-2013			NA	NA	NA	NA	NA	X								
31	OU-7 PSC 46 UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	3-Jul-2013 5-Sep-2013	17-Aug-2013	1-Oct-2013	15-Nov-2013	30-Nov-2013	10-Dec-2013	20-Dec-2013					X	NA	X	X		Request comments from FDEP and EPA on Draft Rev 2 UFP SAP						
32	OU-8 PSC 47 UFP SAP (On Hold Until 2014)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	TBD												NA				On Hold						
33	OU-3 PSC 48 UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Apr-2013 31-May-2013	14-Jun-2013	29-Jul-2013	12-Sep-2013	27-Sep-2013	7-Oct-2013	17-Oct-2013			X	X	X	NA	X	X	Prepare Final UFP SAP							
34	OU-3 Areas B&G UFP SAP	Draft: email Draft Rev 2: HC+CD Final: HC+CD	2-May-2013 31-May-2013	16-Jun-2013	31-Jul-2013	14-Sep-2013	29-Sep-2013	9-Oct-2013	13-Jan-2013			X		X	NA	X	X	Request comments from EPA on Draft Rev 2							
35	OU-7 PSC 46 Semi-Annual Groundwater Monitoring Report (September 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Nov-2013	14-Jan-2014	28-Feb-2014	14-Apr-2014	29-Apr-2014	9-May-2014	19-May-2014	30-Dec-2013					NA	NA		Prepare Draft report						\$ 170,415.00	\$ 89,037.17
36	OU-7 PSC 46 Semi-Annual Groundwater Monitoring Report (March 2014)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	31-May-2014	15-Jul-2014	29-Aug-2014	13-Oct-2014	28-Oct-2014	7-Nov-2014	17-Nov-2014						NA	NA		Perform March 2014 sampling event							
37	OU-3 PSC 48 2013 Annual Groundwater Monitoring Report	Draft: email Draft Rev 2: HC+CD Final: HC+CD	31-Jul-2013 25-Sep-2013	14-Sep-2013	29-Oct-2013	13-Dec-2013	28-Dec-2013	7-Jan-2014	17-Jan-2014					X	NA	NA		Request comments from FDEP, EPA, and Tim on Draft Rev 2							
38	OU-6 PSC 52 Semi-Annual Groundwater Monitoring Report (June 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	11-Oct-2013	25-Nov-2013	9-Jan-2014	23-Feb-2014	10-Mar-2014	20-Mar-2014	30-Mar-2014	30-Dec-2013				X	NA	NA		Request comments from Tim.							
39	OU-6 PSC 52 Semi-Annual Groundwater Monitoring Report (December 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Sep-2013	14-Nov-2013	29-Dec-2013	12-Feb-2014	27-Feb-2014	9-Mar-2014	19-Mar-2014						NA	NA		Perform December 2013 sampling event							
40	OU-3 Areas B&G Bi-Annual Groundwater Monitoring Report	Draft: email Draft Rev 2: HC+CD Final: HC+CD	4-Sep-2013 25-Sep-2013	19-Oct-2013	3-Dec-2013	17-Jan-2014	1-Feb-2014	11-Feb-2014	21-Feb-2014	30-Dec-2013				X	NA	NA		Request comments from FDEP, EPA, and Tim on Draft Rev 2							
41	B101S Groundwater Monitoring Results (June 2013) - Complete	Draft: email Final: HC+CD	16-Jul-2013 17-Jul-2013	NA	NA	NA	NA	NA	NA			X	NA	NA	NA	NA	X	Send final approved report to TI for NIRIS upload.						\$ 18,642.00	\$ 9,021.05
42	B101S Groundwater Monitoring Results (December 2013)	Draft: email Final: HC+CD		NA	NA	NA	NA	NA	NA					NA	NA	NA		Perform December 2013 sampling event							
43	OU-5 PSC 51 2013 Annual Groundwater Monitoring Report (June 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	9-Oct-2013	23-Nov-2013	7-Jan-2014	21-Feb-2014	8-Mar-2014	18-Mar-2014	28-Mar-2014	30-Dec-2013					NA	NA		Provide comments on Draft report. Request comments from Tim.							
44	OU-1 PSCs 26&27 2013 Annual Groundwater Monitoring Report (June 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	16-Aug-2013 24-Oct-2013	30-Sep-2013	14-Nov-2013	29-Dec-2013	13-Jan-2014	23-Jan-2014	2-Feb-2014	30-Dec-2013				X	NA	NA	X	Request comments from FDEP and EPA on Draft Rev 2						\$ 27,007.00	\$ 25,270.62
45	OU-3 Area A 2013 Annual Groundwater Monitoring Report (June 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	7-Aug-2013 28-Oct-2013	21-Sep-2013	5-Nov-2013	20-Dec-2013	4-Jan-2014	14-Jan-2014	24-Jan-2014	30-Dec-2013				X	NA	NA		Request comments from FDEP, EPA, and Tim on Draft Rev 2							
46	Gas Hill Semi-Annual Groundwater Monitoring Report (September 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Nov-2013	14-Jan-2014	28-Feb-2014	14-Apr-2014	29-Apr-2014	9-May-2014	19-May-2014	31-Dec-2013	28-Feb-2014			N/A		NA		Prepare Draft report							
47	Gas Hill Semi-Annual Groundwater Monitoring Report (March 2014)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	31-May-2014	15-Jul-2014	29-Aug-2014	13-Oct-2014	28-Oct-2014	7-Nov-2014	17-Nov-2014	30-Jun-2014	31-Aug-2014			NA		NA		Perform March 2014 sampling event							
48	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (September 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	30-Nov-2013	14-Jan-2014	28-Feb-2014	14-Apr-2014	29-Apr-2014	9-May-2014	19-May-2014	30-Nov-2013	31-Jan-2014			NA		NA		Prepare Draft report							
49	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (December 2013)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	28-Feb-2014	14-Apr-2014	29-May-2014	13-Jul-2014	28-Jul-2014	7-Aug-2014	17-Aug-2014	28-Feb-2014	31-Mar-2014			NA		NA		Perform December 2013 sampling event						\$ 128,925.00	\$ 23,276.05
50	PCA 25 UST Site 119 Quarterly Groundwater Monitoring Report (March 2014)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	31-May-2014	15-Jul-2014	29-Aug-2014	13-Oct-2014	28-Oct-2014	7-Nov-2014	17-Nov-2014	30-Jun-2014	31-Jul-2014			NA		NA		Perform March 2014 sampling event							
51	PCA 25 UST Site 119 Annual Groundwater Monitoring Report (June 2014)	Draft: email Draft Rev 2: HC+CD Final: HC+CD	31-Aug-2014	15-Oct-2014	29-Nov-2014	13-Jan-2015	28-Jan-2015	7-Feb-2015	17-Feb-2015	31-Aug-2014	30-Sep-2014			NA		NA		Perform June 2014 sampling event							

X = Comments have been received from this reviewer  
 Blank = No comments have been received from this reviewer  
 Shaded - Documents to be submitted in the next 30 days.  
 NA = no review required by this reviewer.

\*\* The regulators will issue a letter approving the draft-final as final if no dispute resolution.

Remaining Budget
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\$ 1,208.53
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\$ 119,979.20
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\$ -
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\$ -
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**Remaining  
Budget**

\$ 81,377.83

\$ 9,620.95

\$ 1,736.38

\$ 105,648.95



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
2000 NAVY PENTAGON  
WASHINGTON, DC 20350-2000

5090  
Ser N45P/13U139776  
21 Oct 2013

From: Director, Energy and Environmental Readiness Division  
(OPNAV N45)  
To: Distribution  
Subj: FISCAL YEAR (FY) 2013 CHIEF OF NAVAL OPERATIONS (CNO)  
ENVIRONMENTAL AWARDS COMPETITION

Ref: (a) OPNAVINST 5090.1C of 30 Oct 07, Appendix D

Encl: (1) Secretary of Defense Environmental Awards FY 2012-  
2013 Guidance of 26 Aug 13  
(2) CNO Environmental Awards Format Requirements for  
Photographs, Captions, and Logos  
(3) Nomination Format Requirements for the CNO  
Environmental Quality—Small & Large Ship Award

1. The FY 2013 CNO Environmental Awards competition will recognize exceptional environmental stewardship. This memorandum calls for nominations for these awards and supplements submission information provided in reference (a).

2. Echelon II commands may submit nominations for each of the 10 award categories listed below for achievements during the period October 1, 2011 through September 30, 2013.

- a. Natural Resources Conservation, Small Installation
- b. Natural Resources Conservation, Individual/Team
- c. Environmental Quality, Non-industrial Installation
- d. Environmental Quality, Individual/Team
- e. Sustainability, Industrial Installation
- f. Environmental Restoration, Installation
- g. Environmental Restoration, Individual/Team
- h. Cultural Resources Management, Installation
- i. Environmental Excellence in Weapon System Acquisition, Large Program, Individual/Team
- j. Environmental Quality, Large Ship

3. Echelon II commands may submit up to five nominations for each of the individual/team and ship award categories. There is no restriction on the number of installation nominations that will be accepted for the installation award categories. Nominations for individual/team awards should be specific to individual or team accomplishments, while nominations for the installation awards should specifically focus on installation programmatic accomplishments.

Subj: FISCAL YEAR (FY) 2013 CHIEF OF NAVAL OPERATIONS (CNO)  
ENVIRONMENTAL AWARDS COMPETITION

4. The judging criteria for award categories (a) through (i) are found in enclosure (1). The judging criteria for award category (j) is found in reference (a).
5. Nominations for award categories (a) through (i) must be submitted using the format and guidelines described in enclosure (1) on pages 10/46 - 12/46 and enclosure (2). Nomination format and submission requirements for award category (j) is found in enclosure (3).
6. Echelon II commands must log in to <http://cnoenviroawards.com> to submit their nomination packages no later than 11:59:59 p.m. eastern standard time (EST) on Friday, January 10, 2014. No paper copy or CD submittals will be accepted.
7. CNO winners will advance to the Secretary of the Navy (SECNAV) level of competition. SECNAV winners will then advance to the Secretary of Defense level of competition.
8. Due to anticipated travel and budgetary constraints we are not planning a formal awards ceremony in Washington, D.C. for the FY 2013 competition. We will work with CNO and his staff on appropriate means in lieu of a formal ceremony to honor the CNO winners.
9. I look forward to your nominations and to recognizing the outstanding environmental accomplishments of your military and civilian personnel. My point of contact for this awards competition is Ms. Katherine Turner at (703) 695-5073 or [katherine.m.turner.ctr@navy.mil](mailto:katherine.m.turner.ctr@navy.mil).



K. R. SLATES  
Rear Admiral, U.S. Navy

Distribution:  
CNIC N45  
USFF N46  
CPF N01CE1  
COMSC  
NAVSEA SEA 04  
NAVAIR  
NAVSUP N11  
NAVFAC EV  
BRAC PMO  
SPAWAR 81100  
NETC  
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**SECRETARY OF DEFENSE ENVIRONMENTAL AWARDS**

**FISCAL YEAR 2012-2013 GUIDANCE**

**Table of Contents**

**Nominations for the Fiscal Year 2012-2013 Environmental Awards ..... 3**

**About the Secretary of Defense Environmental Awards ..... 3**

**Nomination Process ..... 4**

**Judging Guidance ..... 6**

**Description of the Awards for Fiscal Year 2012-2013 ..... 8**

**Nomination Packet Requirements and Format ..... 10**

**Nomination Packet Check List ..... 13**

**Nomination Packet Instructions**

**Natural Resources Conservation – Small Installation (Tab A1) ..... 14**

**Natural Resources Conservation – Individual/Team (Tab A2)..... 16**

**Natural Resources Conservation Examples of Accomplishments (Tab A3) ..... 18**

**Environmental Quality – Non-industrial Installation (Tab B1) ..... 21**

**Environmental Quality – Individual/Team (Tab B2) ..... 23**

**Environmental Quality Examples of Accomplishments (Tab B3) ..... 25**

**Sustainability – Industrial Installation (Tab C1) ..... 27**

**Sustainability Examples of Accomplishments (Tab C2) ..... 29**

**Environmental Restoration – Installation (Tab D1)..... 32**

**Environmental Restoration – Individual/Team (Tab D2)..... 33**

**Environmental Restoration Examples of Accomplishments (Tab D3) ..... 34**

**Cultural Resources Management – Installation (Tab E1) ..... 35**

**Cultural Resources Management Examples of Accomplishments (Tab E2)..... 37**

**Environmental Excellence in Weapon System Acquisition – Large Program (Tab F1)..... 40**

**Environmental Excellence in Weapon System Acquisition – Judging Guidance  
(Tab F2)..... 44**

**Environmental Excellence in Weapon System Acquisition Examples of Accomplishments  
(Tab F3)..... 45**

**Nominations for the Fiscal Year 2012-2013 Environmental Awards**

Nominations for the Secretary of Defense Environmental Awards to be presented in 2014 are due to ODUSD(I&E) by March 3, 2014, using this guidance document. Each Military Service and Defense Agency may submit one nomination for each of the nine award categories listed below for achievements during the period October 1, 2011 through September 30, 2013.

Accomplishments that demonstrate cost-effectiveness and positive outcomes should be emphasized in your nominations. Nominations for individual/team awards should be specific to individual or team accomplishments, while nominations for the installation awards should specifically focus on installation programmatic accomplishments. Full descriptions for each category are provided on pages 8-9. The nominating Military Department or Defense Agency shall submit clean nomination packages electronically in .pdf format by (a) email to shah.a.choudhury.civ@mail.mil or (b) on a compact disk (CD), accompanied by a Military Department or Defense Agency nomination memorandum to the DUSD(I&E) at:

Office of the Deputy Under Secretary of Defense (Installations & Environment)  
 3400 Defense Pentagon  
 Washington, DC 20301-3400

**Installation**

- Natural Resources Conservation, Small
- Environmental Quality, Non-industrial
- Sustainability, Industrial
- Environmental Restoration
- Cultural Resources Management

**Individual/Team**

- Natural Resources Conservation
- Environmental Quality
- Environmental Restoration
- Environmental Excellence in Weapon System Acquisition, Large Program

**About the Secretary of Defense Environmental Awards**

Each year since 1962, the Secretary of Defense has honored installations, teams, and individuals for outstanding achievement in DoD environmental programs. As structured since Fiscal Year (FY) 2009, some of the awards are on a two-year cycle with large/small and non-industrial/industrial installations competing in alternate years, as shown in the table below.

<b>Odd Fiscal Years (i.e., 2011, 2013)</b>	<b>Even Fiscal Years (i.e., 2010, 2012)</b>
<b>Installation</b>	<b>Installation</b>
Natural Resources Conservation, Small	Natural Resources Conservation, Large
Environmental Quality, Non-industrial	Environmental Quality, Industrial
	Environmental Quality, Overseas
Sustainability, Industrial	Sustainability, Non-industrial
Environmental Restoration	Environmental Restoration
Cultural Resources Management	Cultural Resources Management

<b>Individual/Team</b>	<b>Individual/Team</b>
Natural Resources Conservation	Sustainability
Environmental Quality	Cultural Resources Management
Environmental Restoration	
Environmental Excellence in Weapon System Acquisition, Large Program	Environmental Excellence in Weapon System Acquisition, Small Program

### **Nomination Process**

Each Military Service or Defense Agency may submit one nomination for each award category. Nominees for individual awards must be DoD civilian employees (including Intergovernmental Personnel Act [IPA] employees) or members of the U.S. Armed Forces. Nominees for team awards must include one or more DoD civilian employees (including IPAs) or members of the U.S. Armed Forces; other team members may be DoD contractor employees. Nominations for individual/team awards should be specific to individual or team accomplishments, while nominations for the installation awards should specifically focus on installation programmatic accomplishments. Accomplishments that demonstrate cost-effectiveness and positive outcomes should be emphasized in your nominations. Specific information on eligibility requirements, judging criteria, contents of the nomination package, and illustrative examples of accomplishments for each award category are noted in the nomination packet instructions (Tabs A-F) later in this document. The nomination packages must be unclassified.

Installations, individuals, and teams that previously won the Secretary of Defense Environmental Award for a given category are not eligible to compete within the same category using the same accomplishments for any subsequent submission; however, different accomplishments within the same category, during the stated achievement period (see Nomination Packet Requirements and Format on pages 10-12) are acceptable.

The nominating Military Department or Defense Agency is responsible for clearing nominations for public release and providing the associated documentation to OSD. ODUSD(I&E) will upload all nomination narratives on the Defense Environmental Network and Information Exchange (DENIX) website for online viewing by the judges and subsequent viewing by the public.

Upon receipt of the nomination packets, a panel of judges from government, non-governmental organizations, academia, and the private sector selected by ODUSD(I&E) will evaluate the nominations on six key criteria, as described in the judging guidance.

1. Program Management
2. Technical Merit
3. Orientation to Mission
4. Transferability
5. Stakeholder Interaction
6. Project Impact/Outcomes

As of August 26, 2013

Based on the evaluation by the judges, a winner will be selected for each award category. The winner will receive a trophy and a Secretary of Defense certificate, and honorable mentions will receive a Secretary of Defense certificate.

## Judging Guidance

**General:** It is not necessary to compare an installation quantitatively for the installation awards; or an individual with a team for the individual/team awards. Rather, all nominees, other than those in the Environmental Excellence in Weapon System Acquisition category (see Tab F2 for separate judging guidance), are to be judged qualitatively relative to the following six criteria. Nominees are not to be compared against each other, nor should they be evaluated quantitatively. Specific judging criteria applicable to the award category are noted in the nomination packet instructions for that award category later in this document.

### Program Management:

1. Did the nominee demonstrate improvement during the period under consideration?
2. Was there a recognized management system structure in place to effectively manage (i.e., develop and implement) the environmental aspects of the mission? (Note that third party registration of the management system is not a DoD policy requirement.)
3. Did the program demonstrate substantive involvement with appropriate internal offices (e.g., funds manager, master planner, real property manager, utilities engineer, logisticians, trainers, and/or testers)?
4. Were all required plans prepared and were they up-to-date?
5. Did the nominee clearly identify and meet program milestones?
6. Did the nominee demonstrate cost savings and mission benefits (e.g., were there optimization efforts that resulted in cost avoidance? Were actions taken for cost-effective outcomes benefiting the mission?)

### Technical Merit:

1. Did the nominee use innovative techniques? How is the innovation significant?
2. Was the program effective in protecting, enhancing, and/or restoring the environment?
3. Did the program quantify its accomplishments to demonstrate the scale of projects and impacts of successes? Did the program promote protection and/or more efficient and sustainable use of resources?
4. Are the program's accomplishments distinct from past successes? How are they significant?

### Orientation to Mission:

1. Did the program demonstrate substantive involvement of individuals directly responsible for the military readiness or civil works mission, as appropriate, for the accomplishments cited, in the nomination package?
2. Did the program contribute to the successful execution or enhancement of the nominee's military readiness/civil works mission?
3. Did the program help identify and develop mitigation measures to mission restrictions, as necessary? Were these measures effectively implemented?
4. Did the nominee provide science and research contributions that directly support the mission?

### Transferability:

1. Can others adopt this program elsewhere within and/or outside of DoD?

2. Did the nominee demonstrate progress in transferring innovations to others within and outside of DoD?

**Stakeholder Interaction:**

1. Did the program interact with the surrounding community, state and local regulators, non-regulatory agencies, and non-governmental organizations (U.S. only)?
2. Did the nominee establish volunteer and partnership programs? What were the contributions of these partners (U.S. only)?
3. Did the nominee develop public and in-house education and outreach programs (U.S. only)?
4. Did the program promote public access (U.S. only)?
5. Did the program include substantive opportunities for public involvement and two-way communication (U.S. only)?
6. Did the program achieve success in enhancing environmental awareness and community involvement for base personnel and residents of military housing (Overseas only)?

**Project Impact/Outcomes:**

1. Will the technique and/or program endure over time?
2. Is there a framework in place to build on/improve the nominee's accomplishments in the future?

## Description of Awards for Fiscal Years 2012-2013

### Natural Resources Conservation (Tab A):

- **Small Installation**
- **Individual/Team**

These awards recognize efforts to promote the conservation of natural resources, including the identification, protection, and restoration of biological resources and habitats; the sound long-term management and use of the land and its resources; and the promotion of the conservation ethic. Providing enhanced quality of life for installation personnel and visitors (e.g., outdoor recreation and environmentally beneficial landscaping) are also factors in this award.

Nominations may be from the Military Departments or Defense Agencies for (a) any small U.S. Military active or closing installation worldwide and (b) any individual or team.

### Environmental Quality (Tab B):

- **Non-industrial Installation**
- **Individual/Team**

These awards recognize efforts to ensure mission accomplishment and protection of human health in the areas of environmental planning, waste management, and compliance with environmental laws and regulations (e.g., Clean Air Act, Clean Water Act, Safe Drinking Water Act, etc.). Nominations may be from the Military Departments or Defense Agencies for (a) any U.S. Military active or closing non-industrial installation and (b) any individual or team.

### Sustainability (Tab C):

- **Industrial Installation**

This award recognizes efforts to prevent or eliminate pollution at the source, including practices that increase efficiency and sustainability in the use of raw materials, energy, water, or other resources. Nominations may be from the Military Departments or Defense Agencies for any U.S. Military active or closing industrial installation worldwide.

### Environmental Restoration (Tab D):

- **Installation**
- **Individual/Team**

These awards recognize efforts to protect human health and the environment by cleaning up identified DoD sites in a timely, cost-efficient, and responsive manner. Nominations may be from the Military Departments or Defense Agencies for (a) any U.S. Military active or closing installation worldwide and (b) any individual or team.

### Cultural Resources Management (Tab E):

- **Installation**

This award recognizes efforts to promote cultural resources stewardship in DoD by highlighting outstanding examples of Cultural Resources Management (CRM). Awards are designed to showcase DoD's extensive cultural resources including archaeological sites, the historic built environment, and cultural landscapes. Desired initiatives include partnering with external stakeholders such as Native Americans, State Historic Preservation Officers, and local communities, and those working with internal stakeholders, such as master planning, public

works, and range management. Nominations may be from the Military Departments or Defense agencies for any U.S. Military active or closing installation worldwide.

**Environmental Excellence in Weapon System Acquisition (Tab F):**

- **Large Program**

This award recognizes efforts to incorporate environment, safety, and occupational health requirements into a large (Acquisition Category I) weapon system acquisition program's system engineering, contracting, and decision-making processes. Nominations may be from the Military Departments or Defense Agencies for an individual or team. Installations are not eligible for this award.

## Nomination Packet Requirements and Format

The achievement period for the FY 2013 Secretary of Defense Environmental Awards is FY 2012 and FY 2013. The nomination packets should not feature achievements accomplished outside of this period and must be unclassified. Nomination packets must be submitted using the format and guidelines prescribed in this document. The nomination packet shall contain the following components as described below for each installation/individual/team:

1. Compliance History (see guidance below; no page limit)
2. Security Review Documentation (see guidance below; no page limit)
3. Nomination Submission Page (see guidance below)
4. Narrative (no more than 7 pages)
5. Summary for Awards Ceremony Brochure (no more than 1 page)
6. Photographs for Awards Ceremony Brochure (6 photos; 300 dpi and no more than 2MB per photo)
7. Photograph Captions (see guidance below)
8. Logo (300 dpi image; no more than 2MB per logo)

A checklist with required documents and procedures for nominating each installation/individual/team is on page 11.

**Compliance History:** Each installation in the U.S. or its territories shall submit to ODUSD(I&E) the latest available Detailed Facility Report from the U.S. Environmental Protection Agency (EPA) Environmental Compliance History Online (ECHO) database in .pdf format (<http://www.epa-echo.gov/echo/>).

Installations with any High Priority Violations (HPV) or Significant Non-Compliance (SNC) during the achievement period are **not eligible** to compete in **any** category of the Secretary of Defense Environmental Awards, unless the installation can demonstrate (with supporting documentation), that its inclusion in the ECHO report is erroneous. Prior to submitting nomination packets to ODUSD(I&E), DoD Components shall screen installation nominees against the ECHO report, as well as their own internal reporting on environmental violations, to ensure that there are no HPV or SNC issues. HPV or SNC status for an installation does not disqualify the submission of an individual or team nomination packet.

**Security Review Documentation:** All information provided in the narrative must be unclassified and cleared for public release. Nomination packets upon submittal to ODUSD(I&E) must include security review clearance documentation for public release from installation or Component security review or public affairs office. At the OSD level, clearance for public release of information is conducted in accordance with DoDD 5230.09 through use of DD Form 1910. (Note: this documentation will not count towards the seven-page limit for the narrative.)

**Nomination Submission Page:** Each nomination packet shall include a submission page with the following information:

1. Award category
2. Name of nominated person, team, or installation

3. Title of nominee(s) (if individual/team award)
4. Telephone numbers (commercial and DSN) for nominee(s)
5. E-mail address of nominee(s)
6. Mailing address (appropriate for receipt of trophy) of nominee(s)
7. Name of nominating individual
8. E-mail address of nominating individual
9. Telephone numbers (commercial and DSN) for nominating individual
10. Mailing address of nominating individual
11. The name of the nominee(s) as it should appear on the award (engraving plate)

**Narrative Packet:** Each nomination packet shall include a narrative regarding the chosen award category, as described in Tabs A-F. Prepare the narrative in single-spaced text (12-point font) and use graphics (e.g., tables, charts, diagrams, photographs, maps), as appropriate, to clarify accomplishments; videos and music cannot be included. Graphic fonts, including photograph descriptions, should be no smaller than 10 point. The total text and graphics of the award narrative shall consist of no more than seven single-sided 8 ½” x 11” pages when printed. The narrative shall clearly address the six major judging criteria: program management; technical merit; orientation to mission; transferability; stakeholder interaction; and project impact. All information provided in the narrative must be unclassified and cleared for public release.

**Summary for Awards Ceremony Brochure:** The nomination packet shall contain a one-page summary, separate from the narrative, which is cleared for use in the awards ceremony brochure and other outreach materials. The summary shall consist of single-spaced text (12-point font) on a single-sided 8 ½” x 11” page. **Failure to include the additional one-page summary will disqualify the nomination packet.** The summary shall include a paragraph (no more than 600 words) that (a) introduces the individual, team, or installation nominated for the award category, and (b) describes, in non-technical language, the project(s), program(s), and effort(s) conducted by that individual, team, or installation. The summary should also include four to six bullets (no more than 60 words per bullet) describing the most outstanding accomplishments by the nominated individual, team, or installation during the award cycle. To the extent feasible, such accomplishments should be quantifiable (e.g., “improvements resulted in reducing net carbon dioxide emissions by 5,000 metric tons...”). The summary should not include any new information not mentioned or addressed in the nomination narrative.

**Photographs for Awards Ceremony Brochure:** Each nomination packet shall include at least six 4” x 6” photographs for use in the Secretary of Defense Environmental Awards ceremony brochure and other promotion of awards. For individual and team nominations, Military Departments and Defense Agencies are encouraged to include photographs of the nominated individual or team. Provide these photographs separately from the narrative in .jpg electronic format with a minimum resolution of 300 dots per inch (dpi) and not more than 2MB per image.

**Photograph Captions:** Each photograph must be accompanied by a three-sentence caption (**not imbedded in the photo**) in a Microsoft Word format that illustrates the nominee’s performance in the submitted award category, suitable for direct importation into a brochure. Submit the photo captions separately from the narrative.

As of August 26, 2013

**Logo:** Each nomination packet shall include a high-quality 300 dpi image of the nominee's activity logo that is in .jpg electronic format and does not exceed 2MB.

### Nomination Packet Check List

The purpose of the following checklist is to ensure that all nominees submit the required documentation with their nomination packets. It is not required for nomination submittal.

Environmental Compliance History Online (ECHO) Report(s)	<input type="checkbox"/>
Security Review/Public Release documentation	<input type="checkbox"/>
Nominee has been screened against ECHO and internal violation reports, and does not have any HPV or SNC violations during the achievement period	<input type="checkbox"/>
Nominee has been screened against all nomination criteria and is award eligible	<input type="checkbox"/>
Nomination submission page	<input type="checkbox"/>
All information included in the nomination package is unclassified	<input type="checkbox"/>
Narrative (7 page limit)	<input type="checkbox"/>
Accomplishments featured in the nominee's narrative occurred during the achievement period	<input type="checkbox"/>
Narrative/brochure summary (1 page limit)	<input type="checkbox"/>
Brochure photos (6 photos; 300 dpi resolution; 2MB maximum each)	<input type="checkbox"/>
Photo captions (maximum of 3 sentences for each photo)	<input type="checkbox"/>
High resolution logo (300 dpi resolution; 2MB maximum)	<input type="checkbox"/>

**Tab A1**  
**Secretary of Defense Environmental Award Category**  
**Natural Resources Conservation – Small Installation**

**Eligibility:** Presented to small installations with 10,000 acres or less, including leased, military-owned, or administered outlying ranges or training practice areas that have made significant progress in promoting the conservation of natural resources and have demonstrated long-term management and use of the land and its resources. To be eligible for natural resources awards, installations must be covered by a compliant Integrated Natural Resources Management Plan (INRMP) during the entire achievement period, and must have conducted an internal natural resources self-assessment based on DoD's Natural Resources Conservation Metrics within the past year. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Definitions:**

Compliant INRMP: An INRMP that has been both approved in writing, and reviewed, within the past five years, as to operation and effect, by authorized officials of DoD, DOI, and each appropriate state fish and wildlife agency.

Review as to operation and effect: A comprehensive, joint review by the parties to the INRMP, conducted no less often than every five years, to determine whether the plan needs a minor change or revision to continue to address adequately the purposes and requirements of the Sikes Act.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness mission.
4. How the program has enhanced quality of life for the installation personnel and visitors.
5. How well has the program employed beneficial landscaping.
6. How effectively the nominee disseminated lessons learned to others.
7. The nominee's success in involving base personnel, residents, and the local community in the program.
8. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

Introduction: Introduce the installation by describing the following:

1. Its mission.
2. Approximate civilian and military population (unless classified).
3. Total acreage under the nominee's INRMP, followed by a description of the component acreage under the natural resources management program (e.g.,

improved, semi-improved, and unimproved acreage; acres of managed forests, wildlife, grazing, agriculture, unique natural areas, lakes, or wetlands; miles of streams or coastline; and acres available for hunting, fishing, and other outdoor recreation).

4. Significant natural features of the nominee, such as geological and botanical assets.

**Background:** Provide background information regarding updating and implementing the installation's INRMP and natural resources program. List the dates of approval and revision, if appropriate, of the nominee's INRMP and of the most recent internal natural resources self-assessment. List and provide preparation and revision dates for the cooperative agreements that support the INRMP. Describe the organization and staffing of the nominee's natural resources management program and progress made to incorporate requirements identified in the INRMP into the nominee's Environmental Management System. Describe any committees or boards that influence the nominee's natural resources management program.

**Summary of Accomplishments:** Describe the most outstanding features and accomplishments of the natural resources program during the achievement period. Summarize how the program implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List the objectives of the INRMP and the degree of attainment of each objective during that period. Provide examples of science and research support that enable the mission. Explain how the program's accomplishments are distinct from past successes or significantly support the mission. Illustrative examples of accomplishments can be found at Tab A3; however, the nominee is not limited to these examples.

**Tab A2**  
**Secretary of Defense Environmental Award Category**  
**Natural Resources Conservation – Individual/Team**

**Eligibility:** Presented to any person or team consisting of two or more persons who have made a significant and lasting contribution to natural resources conservation. If nominated for an individual award, the nominee must be a DoD civilian employee (including IPAs), or a member of the U.S. Armed Forces. If nominated for a team award, one or more, but not all, of the members of the team may be contractor employees; the other team members must be DoD civilian employees (including IPAs), or members of the U.S. Armed Forces. Winners will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. What are the nominee's technical merits.
3. How well the nominee supported the military readiness mission.
4. How has the nominee enhanced quality of life for the installation personnel and visitors.
5. How well did the nominee employ beneficial landscaping.
6. How effectively the nominee disseminated lessons learned to others.
7. The nominee's success in involving base personnel, residents, and the local community in the program.
8. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

Background: List the individual's, or each team member's, name, title or position, and employing organization.

Position Description: Provide a summary of the nominee's major routine duties and responsibilities during the achievement period.

Summary of Accomplishments: Describe the most outstanding accomplishments of the nominee during the achievement period. Summarize how the nominee implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List and describe awards or other natural resources conservation recognition given to the nominee during the achievement period. Describe any relevant professional achievements, including any community service associated with their work in DoD natural resources conservation, participation in related professional organizations/conferences, and development and/or completion of any natural resources conservation initiatives that were mission and natural resources conservation supporting above and beyond the individual's regular duties. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission.

Illustrative examples of accomplishments can be found at Tab A3; however, the nominee is not limited to these examples.

**Tab A3**  
**Natural Resources Conservation Examples of Accomplishments**

**Overall Natural Resources Conservation Management:**

1. Multiple-use coordination of forestry, land use management, outdoor recreation, wildlife, aesthetics, and threatened and endangered species habitat with the military mission and other operations.
2. Improvements in planning, programming, and budgeting, including innovative cost reduction initiatives, to support the natural resources program.
3. Use of alternative management approaches, technologies, and staffing to enhance the natural resources program.
4. Status of INRMP implementation.
5. Application of principles and guidelines of ecosystem management in a regional planning context, to include consideration of economic, social, and environmental factors.
6. Monitoring of wildlife or ecosystems types and changes over time in relation to climate change and other stressors.

**Mission Enhancement:** How accomplishments and improvements in the natural resources management program have enhanced the ability of the nominee to carry out its military mission. Describe how the mission was maintained or enhanced. Describe how the INRMP provided conservation benefits for a listed or candidate species that precluded critical habitat designation.

**Land Use Management:**

1. Erosion control and other water quality protection.
2. Water conservation.
3. Agricultural land management, including prime and unique farmland protection, and out leasing programs.
4. Natural resources improvements and benefits due to agricultural out leases.
5. Environmentally beneficial landscaping and native plant conservation/use, emphasizing those that reduce long-term maintenance costs.
6. Coordination and cooperation with U.S. Department of Agriculture Natural Resources Conservation Service, County Agricultural Extension Service, and/or other land management agencies.

**Forest Management:**

1. Reforestation.
2. Timber-stand improvements.
3. Use of prescribed burning.
4. Establishment and protection of unique forest areas.
5. Cooperative efforts with U.S. Forest Service, state foresters, and similar groups or agencies.

6. Commercial forestry programs.

**Fish and Wildlife:**

1. Health of species and habitats.
2. Protection of federal and state listed threatened and endangered species and their habitats.
3. Game and non-game fish and wildlife habitat improvements.
4. Identification and protection of candidate and at-risk species.
5. Reintroductions and stocking of native species.
6. Degree of access and use of hunting and fishing opportunities by the nominee's personnel and the general public.
7. Improvements in permitting programs; fee schedule for hunting, fishing, or other opportunities.
8. Identification and protection of significant wildlife resources.
9. Protection and enhancement of biodiverse ecosystems and critical habitats.
10. Protection or enhancement of migratory bird habitat and flyways.
11. Coordination and cooperation with U.S. Fish and Wildlife Service, and state fish and wildlife agencies, including annual program reviews of effectiveness of INRMP implementation.
12. Coordination with state wildlife action plans.

**Other Natural Resources:**

1. Camping, bird watching, and trails (nature, hiking, and watchable wildlife).
2. Off-road vehicle use and control.
3. Permit program.
4. Estimated number of users; both general public and DoD personnel.
5. Cooperation and coordination with federal, state, and local outdoor recreation agencies.
6. Provisions for disabled access.
7. Native pollinator conservation/enhancement.
8. Research, development, and demonstration/validation activities.

**Invasive Species Control and Pest Management:**

1. Applications of integrated pest management that support and improve the nominee's natural resources management program, especially procedures that reduce required pesticide applications.
2. Efforts to control nuisance and non-native invasive species and preventing invasion and/or rapid detection and immediate control of invasive species that adversely impact mission training capabilities and nominee's natural resources.
3. Scouting, public school classes, and other group activities related to natural resources conservation.

**Conservation Education (on and off nominee's property):**

1. Natural resources management regulations and enforcement program.

2. Gun and water safety, camping, and outdoor ethics programs.
3. Scouting, public school classes, and other group activities related to natural resources conservation.

**Community Relations:**

1. Public awareness programs and involvement in natural resources conservation programs on and off the nominee's property.
2. Affiliation of the nominee's personnel with civic and private natural resources conservation organizations and academic institutions.
3. Cooperation with federal, state, local, and private natural resources conservation organizations and academic institutions.
4. Volunteer and partnership programs (i.e., level of participation, benefits to the nominee).

**Environmental Enhancement:** How accomplishments and improvements in the natural resources management program have improved the quality of life for the nominee's personnel and for surrounding communities.

**Natural Resources Compliance Program:**

1. Interaction with regulators, inspectors, and auditors, including any open biological opinions or court actions.
2. Budget data to illustrate adequate funding is budgeted and received.
3. Natural resources damage assessment efforts.

**Tab B1**  
**Secretary of Defense Environmental Award Category**  
**Environmental Quality – Non-industrial Installation**

**Eligibility:** Presented to non-industrial installations that have made significant progress to ensure mission accomplishment and protection of human health in the areas of environmental planning, waste management, and compliance with environmental laws and regulations (e.g., Clean Air Act, Clean Water Act, Safe Drinking Water Act, etc.). Ranges, test centers, and research and development (R&D) centers should compete in the non-industrial category. An installation that has a primary mission of manufacturing, maintaining, or rehabilitating military equipment should not compete in the non-industrial category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program and Environmental Management System (EMS) implementation.
2. The program's technical merits.
3. How successful the program was in preferentially targeting reduction of significant sources of waste and harmful discharges and emissions, while maintaining or improving overall mission and environmental, safety, and health performance.
4. How well the program supported the military readiness/civil works mission, and how effectively the program integrated the management of significant environmental aspects into mission activities, as reflected by the involvement of line organizations in EMS implementation.
5. How effectively the nominee disseminated lessons learned to others.
6. The nominee's success in involving installation personnel, residents, and the local community in the program.
7. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

Introduction: Describe its mission, approximate civilian and military population (unless classified), and total acreage. Describe the environmental, geographical, political, economic, and community setting of the nominee.

Background: Provide background information about the installation's environmental quality program. Summarize the significant environmental aspects of the mission and other environmental challenges affecting the nominee. Describe the organization and staffing of the nominee's environmental management program, the management approach employed, and the extent of conformance with DoD and Component EMS policy and guidance. Describe the nominee's involvement in community committees, boards, and partnerships that affect the nominee's management of the environmental aspects of the mission. Describe significant environmental plans and agreements, including the dates of preparation or latest revision of each.

Summary of Accomplishments: Describe the installation's most outstanding accomplishments and how the nominee improved environmental quality and/or protected human health during the achievement period. Summarize how the installation implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List the objectives of the environmental management program or, when applicable, the EMS, as well as the degree to which the nominee attained relevant objectives during the achievement period. Describe the extent to which line organizations have demonstrated operational controls and are effectively managing significant environmental aspects to achieve environmental objectives and long-term mission sustainment. Describe the most outstanding features of the program, including significant progress on EMS implementation and operation. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission. Describe what is unique about the program, its cost effectiveness, and whether it goes beyond meeting statutory and regulatory requirements. Illustrative examples of accomplishments can be found at Tab B3; however, the nominee is not limited to those examples.

**Tab B2**  
**Secretary of Defense Environmental Award Category**  
**Environmental Quality – Individual/Team**

**Eligibility:** Presented to any person or team, consisting of two or more persons, that has made a significant and lasting contribution to their environmental management program, the management approach employed, and environmental management system (EMS) implementation. If nominated for an individual award, the nominee must be a DoD civilian employee (including IPAs) or member of the U.S. Armed Forces. If nominated for a team award, one or more, but not all, of the members of the team may be contractor employees; the other team members must be DoD civilian employees or members of the U.S. Armed Forces. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program and EMS implementation.
2. The nominee's technical merits.
3. How successful the nominee was in preferentially targeting reduction of significant sources of waste and harmful discharges and emissions, while maintaining or improving overall mission and environmental, safety, and health performance.
4. How well the nominee supported military readiness, and how effectively the program integrated the management of significant environmental aspects into mission activities, as reflected by involvement of line organizations in EMS implementation.
5. How effectively the nominee disseminated lessons learned to others.
6. The nominee's success in involving base personnel and residents of military housing in the program.
7. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

**Background:** List the individual's, or each team member's, name, title or position, and employing organization.

**Position Description:** Provide a summary of the nominee's major routine duties and responsibilities during the achievement period.

**Summary of Accomplishments:** Describe the most outstanding accomplishments of the nominee during the achievement period. Summarize how the nominee implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List and describe awards or other special environmental quality recognition given to the individual or team during the achievement period. Describe any relevant professional achievements, including any community service associated with their work in environmental quality, participation in related professional organizations/conferences, and development and/or completion of any environmental quality initiatives that have demonstrated operational controls

and are effectively managing significant environmental aspects to achieve environmental objectives and long-term mission sustainment. Describe the most outstanding features of the program during that period, including significant progress on EMS implementation and operation. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission. Illustrative examples of accomplishments can be found at Tab B3; however, the nominee is not limited to those examples.

**Tab B3**  
**Environmental Quality Examples of Accomplishments**

**Environmental Management System (EMS):**

1. Setting/meeting goals, objectives, and targets.
2. Conducting EMS audits and feeding results back into process improvement procedures.
3. Management review process.
4. Stakeholder involvement and integration of environmental management with mission/energy/transportation activities.
5. Use of cross-functional teams.
6. Training (awareness, executive, and implementation team).
7. EMS impacts on the installation and environmental/operational issues.

**Waste Reduction Efforts (all media areas):**

1. Maintaining permits and compliance records.
2. Meeting permit and regulatory requirements.
3. Operating plant/facility efficiencies.
4. Material or process change/source reduction, including identifying projects, materials, and process changes to enhance and ensure the long-term sustainability of the mission, to prevent resource depletion, and to avoid adverse impacts on natural assets and human health.
5. Sampling/monitoring techniques.
6. Human health considerations.
7. Recycling and waste diversion efforts and accomplishments.
8. Reducing funds expended.

**Environmental Compliance Assessment and Management Program:**

1. Routine self-assessments and follow-up, including root cause analysis and overall program management.
2. Interaction with regulators with regard to inspections, agreements, and other regulatory actions (U.S. only).
3. Funding information to illustrate adequate funds are being requested and received for execution against program requirements.
4. Environmental operations and programs.
5. Training programs.
6. Water resource management and efficiency.

**Effective Use of Funds:** Describe ways in which the program allowed the nominee to reduce funding expenditures, enhance performance, or increase productivity within the environmental budget and relevant line organization budgets.

**Community Relations (U.S. Only):**

1. Programs and activities to enhance environmental awareness and community involvement (both on and off-site) and affiliation of the nominee's personnel with civic and local environmental organizations.
2. Cooperation with federal, state, local agencies, organizations, and academic institutions.

3. Environmental education efforts including Community Right-to-Know activities (on and off the installation).
4. Compliance with Executive Order (E.O.) 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*, 1995; support of the 2011 *Memorandum of Understanding on Environmental Justice and E.O. 12898*; and documentation, identification, and analysis of any disproportionate impacts on targeted minority or low-income communities.

**Community Relations (Overseas):** Programs and activities to enhance environmental awareness and community involvement for base personnel and residents of military housing.

**National Environmental Policy Act (NEPA) Planning, Analysis, and Implementation (U.S. only):**

1. Methodology, integration, and institutionalization of environmental analyses into planning and decision making for each proposal.
2. Setting objectives and goals that promote long-term operational sustainability and developing a plan of action to streamline the process of identifying the proposed action, appropriate alternatives, and mitigation measures.
3. Management techniques employed and their effectiveness in public involvement and participation, to include actions to engage in cooperative consultation with other federal, state, and local agencies, and Native Americans (Indians, Alaskans, and Hawaiians).
4. Examples of ensuring editorial excellence, including readability and brevity.
5. Controls to monitor the environmental effects of the proposed action and the impact of mitigation measures adopted.

**Environmental Planning and Analysis (Overseas only, E.O. 12114, *Environmental Effects Abroad Of Major Federal Actions, 1979*):**

1. Application of innovative environmental analysis, flexibility in analysis, and cost reduction.
2. Scoping and/or focusing analysis to streamline the process of identifying the proposed action, appropriate alternatives, and mitigation measures.
3. Setting objectives and goals that promote long-term operational sustainability and developing a plan of action.
4. Proposals analyzed, decisions made, and the environmental planning process executed for each proposal.
5. Methodology for integrating environmental analyses into planning and decision-making.
6. Results of impact mitigation measures.

**Tab C1**  
**Secretary of Defense Environmental Award Category**  
**Sustainability – Industrial Installation**

**Eligibility:** Presented to installations that have made significant progress to prevent or eliminate pollution at the source and implementing sustainable practices, as defined in E.O.13423, *Strengthening Federal Environmental, Energy, and Transportation Management*, 2007 and E.O.13514, *Federal Leadership in Environmental, Energy, and Economic Performance*, 2009. All sizes of industrial installations (large, small) are eligible in this award category. Installations with a primary mission of producing, maintaining, or rehabilitating military equipment should compete in the industrial category. Ranges, test centers, contracting and policy agency/organizations/offices, and R&D centers should not compete in the industrial category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How successful the program was in preferentially targeting reduction of significant sources of waste and harmful discharges and emissions, while maintaining or improving overall mission and environmental, safety, and health performance.
4. How well the program supported the military readiness/civil works mission, how effectively sustainable practices were integrated into mission activities, and how the practices were used to enhance long-term mission sustainability.
5. How effectively the nominee disseminated lessons learned to others.
6. The nominee's success in involving base personnel, process owners, residents, and the local community in the program.
7. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

**Introduction:** Introduce the installation by describing its mission, approximate civilian and military population (unless classified), and total acreage. Describe the environmental, geographical, political, economic, and community setting of the nominee.

**Background:** Provide background information about the nominee's sustainability program, including the functional offices represented and the management approach used. Focus on the 2012 and 2013 DoD Strategic Sustainability Performance Plan (SSPP) goals and metrics. This includes, but is not limited to the nominee's green procurement program, toxic chemical reduction programs, green buildings, electronics stewardship, energy and water efficiency, and renewable energy. Include the involvement of environmental, procurement, logistics and line personnel. Describe programs for improving stakeholder involvement from line organizations, communities, or boards that assist in and influence sustainable practices. Summarize the

significant program aspects that support the mission, as well as sustainability challenges affecting the nominee.

Summary of Accomplishments: Describe the nominee's most outstanding accomplishments during the achievement period. Summarize how the nominee implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List the objectives of the sustainable practices, master planning, natural infrastructure management, improved air quality, green construction practices (including reduction, reuse, and recycling of toxic contaminants; water and energy efficiency; increase in use of renewables; and green procurement) and the degree of attainment of each objective during the achievement period. Describe the nominee's plans and progress made toward integrating sustainable practices into the management of mission activities. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission. Illustrative examples of accomplishments can be found at Tab C2; however, the nominee is not limited to those examples.

**Tab C2**  
**Sustainability Examples of Accomplishments**

**Livable Communities, Master Planning and Green Buildings:** Describe how construction practices, new structures, and existing structures accomplish the following:

1. Optimize site potential and incorporate low impact development.
2. Minimize energy consumption and maximize energy reduction.
3. Protect and conserve water, resulting in water consumption reduction during construction and facility operations.
4. Improve energy and water efficiency.
5. Incorporate storm water management.
6. Enhance indoor environmental quality.
7. Optimize operations and maintenance practices.

Describe how the nominee(s)

8. Identifies facilities planned, underway, and completed to U.S. Green Building Council standards, or other equivalent standards, and level of certification achieved, if any
9. Updates master plans to create livable communities.

**Compliance with E.O. 13514:** Describe activities being undertaken by the nominee to meet E.O. 13514 requirements, such as reducing greenhouse gas emissions; improving water use efficiency and management; promoting pollution prevention; eliminating waste; advancing regional and local integrated planning; implementing high performance sustainable federal building design, construction, operation and management, maintenance, and deconstruction; advancing sustainable acquisition; promoting electronics stewardship; and sustaining environmental management.

**Material Management:**

1. Describe efforts to identify possible alternatives to environmentally harmful substances or virgin materials. Describe how alternatives avoid resource depletion and impacts on the natural environment and human health, thereby supporting long-term operational sustainability.
2. Describe how substitutes reduce/eliminate environmental issues.
3. Determine if the material substitution is transferable to other processes on the nominee's property or at other DoD locations.
4. Describe efforts by industrial process owners/operators to implement pollution prevention/sustainability initiatives.
5. Describe reductions in risk, costs, emissions, virgin material, and/or hazardous material used in the changed process. Describe how the changes reduce, minimize, or avoid resource depletion and impacts on human health and the environment. Explain how changes support long-term operational sustainability.
6. Describe how the nominee has changed its material management practices to reduce use of hazardous materials.
7. Describe measurable results achieved with the changed material management practices (e.g., a decrease in generation of air or water pollution, a decrease in volume and cost of

hazardous waste disposal, a reduced risk to workers, and/or a cost savings in procurement of materials).

**Compliance with E.O. 13423:** Describe how the nominee is meeting the goals in section 2 of E.O. 13423, such as improving energy efficiency; reducing greenhouse gas emissions; supporting renewable energy generation projects; reducing water consumption; implementing sustainable acquisition processes; reducing toxic and hazardous materials; complying with the Guiding Principles for Federal Leadership in High Performance and Sustainable Buildings; reducing consumption of petroleum products; and promoting electronic stewardship.

**Recycling Program:** Describe the following:

1. The type and size of the recycling program (exclude scrap metals recycling).
2. The types of solid waste materials recycled.
3. Other materials recycled, including hazardous materials.
4. The installation composting program, if one exists.
5. Manufacturing source reduction.
6. Cost avoidance (total solid waste management costs) from recycling.
7. Building materials recycling and deconstruction recycling.
8. New recycling technologies or techniques used in recycling.
9. How activities or communities benefited from the recycling program.
10. Other solid waste diversion efforts.

**Green Procurement:**

1. Describe the type and size of the green procurement program.
2. Describe the nature and extent of personnel/organizational awareness training in federal green purchasing programs (affirmative procurement of recycled content products, bio-based products, energy efficient products, low standby power products, water conserving products, low-volatile organic chemical products, and others, as appropriate).
3. Describe functional areas participating in the green procurement program.
4. Identify EPA guideline items purchased.
5. Identify other recycled content and environmentally preferable items purchased.
6. Describe increases in the purchase and use of recycled content items.
7. Explain the nominee's use of performance measurement to improve program effectiveness.
8. Identify modifications of specifications, statements of work, and contracts to promote purchases of recycled content items.

**Compliance with Sustainable Landscaping:** Describe how the nominee is meeting the goals outlined in the October 2011 *Guidance for Federal Agencies on Sustainable Practices for Designed Landscapes*, such as site selection and planning; soil conservation; water conservation and efficiency; vegetation management; and sustainable materials management.

**Compliance with Fleet Performance:** Describe how the nominee is meeting the goals outlined in the May 2011 *Presidential Memorandum on Federal Fleet Performance*, such as making fleets more fuel-efficient (e.g., with smaller, electric hybrid and/or fuel cell vehicles), and optimizing fleet size by eliminating unnecessary or non-essential vehicles.

**Education, Outreach, and Partnering:**

1. Describe programs implemented that enhance sustainability at any level or any functional area of the Military Department or Defense Agency.
2. Describe initiatives taken to transfer sustainability lessons learned to other parts of DoD.
3. Describe community involvement, activities, and affiliations with civic and environmental organizations in sustainability.
4. Describe cooperation with federal, state, local agencies, organizations, and academic institutions on sustainability activities.
5. Describe efforts to gather community stakeholder input in establishing sustainability objectives relevant to the mission.

**Tab D1**  
**Secretary of Defense Environmental Award Category**  
**Environmental Restoration – Installation**

**Eligibility:** Presented to an installation that has made a significant contribution to environmental restoration. All types (industrial, non-industrial) and sizes (large, small) of installations in the United States and its territories are eligible in this award category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness/civil works mission.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.
6. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

**Introduction:** Introduce the installation by describing its mission, approximate civilian and military population (unless classified), and total acreage. Describe the environmental, geographical, political, economic, and the community setting of the nominee.

**Background:** Provide background information about the installation's restoration program. Summarize the nominee's environmental restoration challenges. Describe the organization, staffing, and management approach of the nominee's environmental restoration program. Describe community involvement programs, such as restoration advisory boards (RABs) or technical review committees. List any environmental restoration agreements and the dates of their preparation or last revision. List any relevant environmental restoration plans, schedules, or associated documents, (e.g., records of decision and engineering evaluation/cost analysis). Describe any initiatives undertaken in the environmental restoration program.

**Summary of Accomplishments:** Describe the nominee's most outstanding accomplishments during the achievement period. Summarize how the nominee implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. Summarize the objectives of the nominee's environmental restoration program and the degree of success reached for each objective in FY 2012-FY 2013. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission. Illustrative examples of accomplishments can be found at Tab D3; however, the nominee is not limited to those examples.

**Tab D2**  
**Secretary of Defense Environmental Award Category**  
**Environmental Restoration – Individual/Team**

**Eligibility:** Presented to any individual or team consisting of two or more persons, who have made a significant contribution to environmental restoration. If nominated for an individual award, the nominee must be a DoD civilian employee (including IPAs) or member of the U.S. Armed Forces. If nominated for a team award, one or more, but not all, of the members of the team may be contractor employees; other team members must be DoD civilian employees or members of the U.S. Armed Forces. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed the program.
2. The nominee's technical merits.
3. How well the nominee supported the military readiness/civil works mission.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.
6. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

Background: List the individual's, or each team member's, name, title or position, and employing organization.

Position Description: Provide a summary of the nominee's major routine duties and responsibilities during the achievement period.

Summary of Accomplishments: Describe the nominee's most outstanding accomplishments during the achievement period. Summarize how the nominee implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List and describe awards or other special recognition given to the nominee during the achievement period. Describe any relevant professional achievements, including any community service associated with their work in environmental restoration initiatives, participation in related professional organizations/conferences, and development and/or completion of any environmental restoration initiatives that were mission support above and beyond the individual's regular duties. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission. Illustrative examples of accomplishments can be found at Tab D3; however, the nominee is not limited to those examples.

**Tab D3**  
**Environmental Restoration Examples of Accomplishments**

**Accelerated Environmental Cleanup:**

1. List the nominee's efforts to accelerate cleanup at sites.
2. Identify the number of acres or percentage of land cleaned up made available to support the mission or subsequently transferred back to the community.
3. Describe initiatives to integrate property reuse/development into site cleanups.
4. Give examples of streamlining in the environmental restoration process that have resulted in accelerated cleanups.
5. Describe program optimization efforts that supported accelerated site cleanup or provided cost avoidance.

**Innovative Technology Demonstration/Validation and Implementation:**

1. Provide examples of innovative technologies that reduced the nominee's environmental restoration costs.
2. Describe innovative technologies the nominee demonstrated, validated, and/or implemented.

**Partnerships Addressing Environmental Restoration Issues Between DoD and Other Entities:**

1. Describe how the nominee worked with the state, local government, and affected community or other federal agencies to share restoration lessons learned, improve effectiveness, reduce or avoided costs, and accelerate cleanups.
2. Describe tangible results of those efforts including documented decisions and/or agreements reached with stakeholders.

**Reducing Risk to Human Health and the Environment:**

1. Describe how cleanup activities reduced the risk to human health and the environment.
2. Describe how improvements in the nominee's site management techniques reduced the risk to human health and the environment.
3. Describe how improvements in the nominee's site characterization techniques reduced the risk to human health and the environment.

**Green Remediation:**

1. Describe your strategy to implement green and sustainable remediation opportunities and present any guidance you may have issued or have under development.
2. Describe your success in implementing green and sustainable remediation and discuss any innovative approaches (e.g., tools, partnerships) used to achieve success.

**Tab E1**  
**Secretary of Defense Environmental Award Category**  
**Cultural Resources Management – Installation**

**Eligibility:** Presented to an installation that has made significant and lasting contributions to DoD cultural resources management (CRM). The installation must show that it has a current and approved Integrated Cultural Resources Management Plan (ICRMP) for the entire achievement period. All types (industrial, non-industrial) and sizes (large, small) of installations are eligible in this award category. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Judging Guidance for additional detail):

1. How well the nominee managed their CRM program, in accordance with the goals and objectives of the installation ICRMP and mission support needs.
2. The installation's involvement developing any Program Alternatives or utilizing existing Program Alternatives during award achievement period.
3. How well the nominee supported the military readiness/responsible CRM practices mission.
4. How effectively the nominee disseminated lessons learned to others (internal and external to the installation).
5. The nominee's success involving internal and external stakeholders in the CRM program.
6. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

Introduction: Introduce the installation by providing the following information:

1. Description of the installation mission(s)
2. Geographic information, such as location and size
3. Maps showing any historic districts associated with the installation being nominated for the award.

Background: Provide background information regarding updating and implementing the installation's ICRMP and CRM program. To be eligible for cultural resources awards, installations or civil works facilities must be covered by an approved ICRMP during the entire achievement period. Provide the date and process details of the installation's last ICRMP revision. Describe your CRM program, including:

1. The number of staff assigned to CRM on your installation
2. The educational backgrounds of the installation's CRM staff
3. A description of any extant CRM management tools such as Programmatic Agreements, Corporative Agreements, or use of Program Alternatives (as found in 36 CFR Part 800.14)
4. A description of the installation's tribal consultation program (if the installation has land affiliated with federally recognized tribes, Native Hawaiian Organizations, or Alaska Native villages).

Summary of Accomplishments: Describe why the nominee deserves recognition for CRM. If applying based on an installation's overall program accomplishments, include (a) a detailed list describing the nominee's most outstanding program features from the achievement period; (b) the inclusion of program features in the nominee's ICRMP; (c) a description of the installation's progress over the achievement period in achieving the goals and benchmarks stipulated within your ICRMP; and (d) a summary highlighting how CRM has improved mission support (e.g., through expanded partnerships with internal stakeholders). Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission.

If an installation is nominated based on a specific program accomplishment or initiative, include (a) a description of how the nominated program/initiative meets or exceeds the goals and requirements of the nominee's ICRMP; (b) a summary highlighting how the nominated program/initiative has improved CRM and mission support; and (c) an explanation describing how the nominated program/initiative differs from routine CRM activities.

Provide specific examples of the installation's CRM accomplishments during the achievement period. Summarize how the installation implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. Illustrative examples of accomplishments can be found at Tab E2; however, the nominee is not limited to those examples.

**Tab E2**  
**Cultural Resources Management Examples of Accomplishments**

**Overall Cultural Resources Management:**

1. Improvements in planning, programming, and budgeting, including innovative cost reduction initiatives to support DoD CRM.
2. Coordination of CRM with mission operations, real property asset management, range sustainment, and general operations such as construction, building maintenance, and repair.
3. Use of alternative management approaches, techniques, and staffing to enhance the CRM program.
4. Status of ICRMP National Register of Historic Places eligibility evaluations (for archaeological resources, historic buildings, landscapes, structures and objects).
5. Use of other available programs to support CRM (e.g. Environmental Security Technology Certification Program [ESTCP], DoD Legacy Resource Management program).

**Historic Buildings and Structures:**

1. Use of historic assets to support mission needs (including adaptive reuse).
2. Appropriate maintenance and repair in accordance with the Secretary of the Interior's Standards, including cost effective measures.
3. Rehabilitation in accordance with the Secretary of the Interior's Standards, including economic analysis.
4. Use of historic tax credits for leased and/or privatized properties.
5. Resources evaluated for National Register eligibility.
6. Accurate coding of historic assets in real property inventory/data bases.

**Archaeological Resources:**

1. Evidence of an increase in total acres on an installation surveyed for archaeological resources.
2. Acres surveyed during award achievement period that, as a result, were made available for military testing and training.
3. Site protection/compliance enforcement.
4. Data recovery efforts.
5. Public interpretation efforts.
6. Research initiatives and scientific contributions.

**Native American Program:**

1. Established or improved upon existing tribal consultation for the nominee installation, or by individuals for a specific installation.
2. Worked with relevant tribes to ensure protection of sacred sites.
3. Established or maintained appropriate access agreements with relevant tribes for access to sites on installation(s) with religious or cultural significance to said tribe(s).
4. Inventory and repatriation efforts completed or in process for all sites/artifacts/items of religious cultural patrimony in accordance with the Native American Grave Protection and Repatriation Act (NAGPRA) associated with the nominated installation.

5. Inventory and repatriation efforts completed or in process for all sites/artifacts/items of religious cultural patrimony in accordance with NAGPRA under the purview of the individual/team nominee(s).

**Curation:**

1. Development of a curation facility that meets the requirements of 36 CFR 79.
2. Development of agreements with outside organizations to curate installation artifacts and associated records in accordance with 36 CFR 79.
3. Ensuring collection(s) meet 36 CFR 79, or initiatives to improve collections management in accordance with 36 CFR 79.
4. Support of initiatives that make collections available to researchers and the public.

**Cultural Resources Awareness and Education (on and off nominee property):**

1. Creation of cultural awareness programs for DoD civilian and military personnel.
2. Development and maintenance of CRM outreach programs for educational institutions and community groups.
3. CRM related contributions to educational programs at all levels of academia.

**Community Relations:**

1. Development of public interpretation initiatives for DoD cultural resources.
2. Fostering public awareness programs and involvement in cultural resources preservation efforts both on an installation as well as in an adjacent community.
3. Affiliation of the nominee(s) with civic and private cultural resources organizations and academic institutions.
4. Development of partnerships with federal, state, tribal, local, and private cultural resources organizations.
5. Involvement in volunteer and partnership programs, (e.g., level of participation, benefits to the nominee(s)).
6. Examples of how CRM accomplishments of nominee(s) have improved the quality of life for nominee installation and/or surrounding communities.

**Mission Enhancement:**

1. Development of initiatives that support mission needs through re-use of historic properties.
2. Development of partnerships (either internal or external) that enhance CRM support of military mission.
3. Programs that enabled additional land to be made available for military testing/training through proactive CRM.

**Cultural Resources Compliance:**

1. Interaction with external stakeholders, such as the National Park Service, State Historic Preservation Officers (SHPOs), the Advisory Council on Historic Preservation, federally recognized tribal governments, and local governments.
2. Tracking of budget data to illustrate adequate funding and budgeting for CRM on nominated installation.
3. Measurable success in improving CRM consultation prior to initiation of actions.

4. Examples of success in managing significant or complex cultural resources compliance actions.
5. Examples of success in utilizing existing Program Alternatives in accordance with 36 CFR 800.14.

**Tab F1**  
**Secretary of Defense Environmental Award Category**  
**Environmental Excellence in Weapon System Acquisition- Large Program**

**Eligibility:** Presented to any individual or team that is part of an acquisition program of record in Acquisition Category I (as defined in DoD Instruction 5000.02, Operation of the Defense Acquisition System), making a significant contribution to an established environment, safety, and occupational health (ESOH) effort for that acquisition program. This ESOH effort shall have accomplished the following:

1. Identified ESOH hazards.
2. Used MIL-STD 882 or similar risk management process
3. Documented the associated ESOH risks, and Programmatic (cost, schedule, performance) risks if applicable.
4. Mitigated the associated risks, preferably through systems engineering.
5. Accepted the ESOH risk at the appropriate management level for one or more systems acquisition programs.
6. Established a partnership with the system's end users, receiving installations, and training locations and ensured National Environmental Policy Act (NEPA) and Executive Order (E.O.) 12114 compliance requirements are addressed before the system is delivered.

If any of these criteria are not met, please explain why (e.g. accepting risks vice mitigating risks)

If nominated for an individual award, the nominee must be a DoD civilian employee (including IPAs) or member of the U.S. Armed Forces. If nominated for a team award, the team shall include DoD civilian employees (including IPAs) or members of the U.S. Armed Forces and may include DoD contractor employees. The winner will receive a trophy and a Secretary of Defense certificate. Honorable mentions will receive a Secretary of Defense certificate.

**Judging Criteria:** The judges will evaluate nominations based on the following criteria (see Tab F2 for additional detail):

1. How well the nominee managed the program.
2. The program's technical merits.
3. How well the program supported the military readiness mission.
4. How effectively the nominee disseminated lessons learned to others.
5. The nominee's success in involving base personnel, residents, and the local community in the program.
6. The nominee's plans to ensure that the impacts of program accomplishments extend beyond the achievement period.

**Narrative Packet:**

Background: List the individual or team name and each team member's name, title or position, and employing organization, and include the Acquisition Category and the program supported.

Position Description: Provide a summary of the nominee's major duties and responsibilities during the achievement period.

Program Description:

1. Briefly describe the systems acquisition program.
2. Describe the nominee's ESOH effort and approach relative to the systems engineering and risk management processes and program management, including coordination with users for risk management.
3. Summarize other organizations/Integrated Product Teams/teams that influenced or participated in the nominee's ESOH activities.

Incorporating ESOH risk management into the Acquisition Process: Summarize the following aspects of the team's ESOH effort:

1. How the nominee used the Systems Engineering Plan (SEP), the Programmatic ESOH Evaluation (PESHE), and the NEPA/E.O. 12114 Compliance Schedule to document the strategies used to integrate ESOH considerations into the systems engineering process (if applicable).
2. How the nominee interfaced in the Joint Capabilities Integration and Development System (JCIDS) process to identify ESOH and Programmatic risks as early as possible in the Acquisition Process (if applicable).
3. How the nominee incorporated ESOH requirements and analyses (e.g., system safety analyses, emissions characterizations, hazardous materials elimination/reduction) into solicitations, contracts, and other requirements documents.
4. How the nominee prioritized and addressed ESOH risks associated with the system with respect to the system's life cycle.
5. How the nominee evaluated and/or gave preference to using energy-efficient and environmentally preferable products/materials for use on and/or in support of the respective system or subsystems.
6. How the nominee coordinated with the user, receiving installations, and training locations to ensure effective communication of system hazards and ESOH risks to support fielding and NEPA and E.O. 12114 analyses and documentation.

ESOH Risk Management (if applicable):

1. Describe how the program identified and mitigated hazards, and tracked ESOH risks using the methodology in MIL-STD 882D or MIL-STD-882E and progress made during the award period.
2. Identify how the program reviewed ESOH risks and technology requirements at program technical reviews. Discuss the following:
  - a. How the program coordinated high and serious risks with the user representative.
  - b. How the nominee ensured the risks were formally accepted at the appropriate management level in accordance with DoD policy.
  - c. How the nominee presented these risks at program and technical reviews and fielding decisions.
3. List high and serious risk(s) identified, mitigation measures, and level of success reducing the risk, user involvement in the process, and transferability within DoD.
4. Describe potential life cycle cost avoidance or savings from design and/or process changes identified to mitigate system-related ESOH risks over the life cycle.

Hazardous Materials Management and Pollution Prevention (if applicable):

1. Describe the approach used to identify and characterize hazardous materials, wastes, emerging technologies, and pollutants (discharges/emissions/noise) associated with the system and plans for minimization, control and/or safe disposal.
2. Summarize if and how the nominee developed a hazardous materials management plan and document usage of hazardous materials in the program's hazard tracking system and PESHE.
3. When using potentially hazardous materials, explain how the nominee took steps to select those materials that posed the least risk throughout the life cycle of the system. When applicable, highlight how the nominee identified environmentally preferable products and tracked these products to ensure their inclusion in systems design specifications and drawings, technical manuals, and authorized materials lists.
4. Describe the nominee's efforts to determine whether alternatives were available and effective to meet the safety, health, reliability, and other mission-related requirements of the system.
5. Discuss how the ESOH effort provided input to demilitarization and disposal planning for the system/subsystem to include information on hazardous materials, safety precautions, and other ESOH considerations.

Internal Execution and Documentation (all that apply):

1. Identify the ESOH responsibilities within the program.
2. Explain the strategy for executing and integrating ESOH considerations into the systems engineering process.
3. Identify ESOH risks and their status.
4. Describe the method for tracking hazards throughout the life cycle of the system.
5. Identify hazardous materials, wastes, and pollutants (discharges/emissions/noise) associated with the system and plans for their minimization and/or safe disposal.
6. State if the nominee incorporated a compliance schedule covering all system-related activities for NEPA and E.O. 12114 compliance, as appropriate.

External Coordination of ESOH Risks Management (all that apply):

1. Describe actions implemented to enhance acquisition ESOH awareness at any level or any functional area within the program and/or DoD.
2. Summarize how cooperation with federal, state, and local agencies, organizations, and academic institutions influenced weapon system acquisition.
3. Describe how the program performed technology transition efforts that other programs across the Components could implement.
4. Explain how well the nominee succeeded in involving and coordinating with the test and evaluation team, user community, receiving organization(s), and others with respect to integrating ESOH risk management in the lifecycle of the program.
5. State if the nominee's effort resulted in minimized cost, schedule, or performance risks to the program by minimizing ESOH risks.
6. Describe how well the nominee quantified accomplishments to demonstrate the scale of projects and impacts of successes.
7. Discuss how well the nominee communicated ESOH risks.

8. Summarize the nominee's success in involving user organizations and program/IPT external to the ESOH effort and in raising awareness of ESOH considerations and risks associated with the system.
9. Explain how well the nominee shared their mitigations through lessons learned to other weapon system programs.

Summary of Accomplishments: Describe the most outstanding ESOH related accomplishments of the nominee during the achievement period. Summarize how the nominee implemented innovative techniques (if applicable), whether or not any of them were successful, and if so, how they were successful. List and describe program related awards and other special recognition given to the nominee during FY 2012-FY 2013. Describe the nominee's related professional achievements, including community service work and participation in ESOH related professional organizations. Explain how the nominee's accomplishments are distinct from past successes or significantly support the mission. Illustrative examples of accomplishments can be found at Tab F3; however, the nominee is not limited to those examples.

**Tab F2**  
**Environmental Excellence in Weapon System Acquisition**  
**Judging Guidance**

**General:** Judge the nominees qualitatively relative to the following six criteria.

**Program Management:** Did the nominee manage and document the ESOH effort to meet acquisition program/capability requirements and to reduce ESOH related drivers of total ownership costs over the life cycle of the system?

**Technical Merit:** Did the technical merits of the nominee's ESOH effort integrate life cycle ESOH risk management into the systems engineering process using the methodology in DoDI 5000.02, *Operation of the Defense Acquisition System*, December 8, 2008; MIL-STD-882D, *DoD Standard Practice for System Safety*, February 10, 2000; and MIL-STD-882E, *Department of Defense Standard Practice: System Safety*, May 11, 2012?

**Orientation to Mission:**

1. Did the program orient its ESOH effort to optimize mission sustainability, mission readiness, and total ownership costs?
2. If it was a program requirement, how effectively did the ESOH effort help meet urgent military needs (e.g., rapid fielding) through agile and flexible application of ESOH expertise to support developing, testing, and fielding of new military capabilities?

**Transferability:**

1. How well did the program incorporate ESOH lessons learned from similar legacy systems and mishap data from the Service Safety Centers?
2. How well did the nominee communicate ESOH risks effectively to others?
3. Did the nominee transfer mitigations through lessons learned to other weapon system programs?

**Stakeholder Interaction:** How effectively did the nominee execute and document the ESOH effort in the SEP, the PESHE, and the NEPA/E.O. 12114 Compliance Schedule?

**Project Impact:**

1. Will program accomplishments outlive the presence of the specific individual(s) responsible for the program's success?
2. Is there a framework in place to build on the nominee's accomplishments over time?

**Tab F3**

**Environmental Excellence in Weapon System Acquisition Examples of Accomplishments**

**ESOH:**

1. Executing, managing, and integrating ESOH efforts into the systems engineering process.
2. Integrating the ESOH risk management into the systems engineering process (e.g., effectively implementing MIL-STD-882D or MIL-STD-882E, pollution prevention, hazardous material management, and NEPA and E.O. 12112 compliance actions).
3. Orienting the program's ESOH effort to optimize mission sustainability, mission readiness, and total ownership costs.
4. Effectively executing and documenting the ESOH effort requirements and ESOH risk status in the SEP, Test and Evaluation Master Plan, and PESHE.
5. Successfully involving user organizations and program/IPTs external to the ESOH effort in identifying/mitigating ESOH hazards and in raising awareness of ESOH considerations and risks associated with the system.
6. Planning and supporting system related NEPA/E.O. 12114 analyses by providing system specific data and other relevant information to complete the analyses.

**Acquisition Compliance:**

1. Describe the activities being undertaken by the nominee to meet the requirements of DoD Directive 5000.01, *The Defense Acquisition System*, May 12, 2003; DoD Instruction 5000.02, *Operation of the Defense Acquisition System*, December 8, 2008; MIL-STD-882D, *DoD Standard Practice for System Safety*, February 10, 2000 or MIL-STD-882E, *Department of Defense Standard Practice: System Safety*, May 11, 2012. [See also the *Defense Acquisition Guidebook* (<https://dag.dau.mil/Pages/Default.aspx>)]. Examples include acquiring quality products that satisfy user needs with measurable improvements to mission capability and operational support, in a timely manner, and at a fair and reasonable price; assessing ESOH risks during formal program assessments following a system-level Post-Critical Design Review Assessment; evaluating ESOH during life-cycle sustainment considerations; disposing of systems in accordance with environmental regulatory requirements; and evaluating the potential testing impacts of a system on the environment and personnel.

**Total Systems Approach:** Summarize how well the program evaluated the system using the total systems approach to address potential ESOH risks, including the following:

1. All ESOH regulatory compliance requirements associated with the system throughout its life cycle.
2. Hazardous material use and hazardous waste generation.
3. Pollution (e.g., effluents, discharges, emissions, noise).
4. Safety (including system safety, explosives safety, ionizing and non-ionizing radiation).
5. Human health (associated with exposure to chemical, physical, biological, or ergonomic hazards, etc.).
6. Environmental and occupational noise, and impacts to the natural environment.
7. NEPA/E.O. 12114 analysis and impacts on the physical environment as appropriate.
8. Potential hazards to the system derived from ESOH risks.

**Sustainability:**

1. Reducing the environmental footprint associated with hazardous waste applications.
2. Reducing emissions.

**Program Management:**

1. Successfully incorporating environmental analysis into the acquisition decision making process.
2. Proactively removing hazardous materials from systems and using government/commercial information sources to identify existing materials alternatives that are commercially available.

**Technology Transfer:**

1. Actively participating in research, development, and technology demonstration and validation projects, particularly those that support testing and fielding of new military capabilities.
2. Collaborating with partners to develop and share solutions to complex environmental and performance challenges.

**Chief of Naval Operations (CNO) Environmental Awards  
Format Requirements for Photographs, Captions, and Logos**

Each nomination packet shall include at least six 4" x 6" photographs for use in articles, on Navy environmental websites, and other promotion of awards. Provide these photographs separately from the narrative in .jpg electronic format with a minimum resolution of 300 dots per inch (dpi) and not more than 2MB per image.

In accordance with Department of Defense (DoD) visual information requirements, photographs should include a Visual Information Record Identification Number (VIRIN) in the caption, and should also use the VIRIN as the filename, i.e. VIRIN#.jpg.

A VIRIN consists of fifteen (15) data elements, in four (4) fields, separated by three hyphens, for a total of 18 characters, organized in the alphanumeric format NNNNNN-A-AANNN-NNN.

**Field 1 (NNNNNN)**: The year, month, and day the photo was taken.

**Field 2 (A)**: The service affiliation or status of the photographer. Service affiliation or status shall be abbreviated as follows:

A = Uniformed member, civilian, or contract employee of the Army  
N = Uniformed member, civilian, or contract employee of the Navy  
F = Uniformed member, civilian, or contract employee of the Air Force

M = Uniformed member, civilian, or contract employee of the Marine Corps

G = Uniformed member, civilian, or contract employee of the Coast Guard

D = Other Civilian or contract employee of the DoD

O = To indicate a person not falling into one of the categories above

**Field 3 (AANNN)**: VISION ID consists of two letters and three numbers in that order. The VISION ID is permanently assigned to service members in the visual and public affairs career fields. Personnel should go to <https://vipro.defenseimagery.mil/> and follow the instructions on the web site to obtain their VISION ID. For questions about the VISION ID, or problems registering for the VISION ID, contact DIMOC Customer Support at 1-888-743-4662 or DSN 795-9872 or click on the customer service link at <http://www.defenseimagery.mil>.

**Field 4 (NNN):** The approximate order in which each photo was taken by the person identified in Fields 3 and 4 on the day identified in Field 1, starting with 001 and continuing consecutively as necessary up to 999. Field 4 of the VIRIN shall reflect the approximate order of the photographs taken on a given day, without regard to variables such as media (e.g. digital or film), so that no two photographs are assigned identical VIRINs.

**Example of a VIRIN:** The fourth image created and not discarded by PH1(AW) John Doe, VISION ID AB123 on March 23, 2002, would be assigned the VIRIN 020323-N-AB123-004.

Fields 2 and 3 of the VIRIN for an image created by more than one individual shall reflect the individual who was the lead creator or head of the team responsible for creating the image.

Copies shall bear the VIRIN of the original, even if conversions between analog and digital, or changes in medium, format, compression, or size occur during the copying process.

Imagery or other units of media which are derived from existing, VIRIN-bearing materials, but which differ significantly in appearance relative to that from which derived, shall, upon creation and unless discarded, be assigned their own VIRIN.

The "Image Number" field of any embedded IPTC caption shall reflect the image's VIRIN.

### **Photograph Captions**

Each photograph must be accompanied by a three-sentence caption (not imbedded in the photo) in a Microsoft Word format that illustrates the nominee's performance in the submitted award category, suitable for direct importation into articles and other outreach materials. Submit the photo captions separately from the narrative.

Photo credit information (including full name, rank, and duty station) and VIRIN must accompany the three-sentence caption.

### **Logo**

Each nomination packet shall include a high-quality 300 dpi image of the nominee's activity logo that is in .jpg electronic format and does not exceed 2MB.

**Nomination Format Requirements for the  
Chief of Naval Operations (CNO)  
Environmental Quality—Small & Large Ship Award**

**Nomination Process**

The Environmental Quality Ship Award categories recognize environmental programs on naval vessels. Ship awards alternate annually between small (crew size of 400 or less) and large (crew size greater than 400) ships.

Nominations for the Environmental Quality/Ship awards are to be submitted electronically by Echelon II commands to OPNAV N45 via a web-based application. United States Fleet Forces Command, United States Pacific Fleet, and Military Sealift Command are each invited to submit up to five nominations in the ship category.

The deadline for submissions is January 10, 2014. Echelon II commands must log in to <http://cnoenviroawards.com> to upload their nomination packages no later than 11:59:59 p.m. eastern standard time (EST). No paper copy or CD submittals will be accepted by OPNAV N45.

Upon receipt of the nomination packet, a panel of judges will evaluate the nominations against the "Criteria for Nomination for the Chief of Naval Operations Environmental Quality—Small & Large Ship Awards" found in OPNAVINST 5090.1C of 30 Oct 07, Appendix D and select winners at the CNO level of competition. CNO winners will advance to the Secretary of the Navy level of competition.

**Nomination Requirements and Format**

Nomination packages must be submitted using the format and guidelines prescribed in this document. The nomination package shall contain the following components as described below:

- (1) Forwarding/endorsement letter(s)
- (2) A nomination submission page
- (3) An award narrative, six pages maximum
- (4) A narrative summary to be used in articles and other promotion of awards

### **Forwarding/Endorsement Letter(s)**

A nomination forwarding/endorsement letter (with enclosures, i.e. items two through four listed above) from the Echelon II command, shall be saved as a PDF file and uploaded to <http://cnoenviroawards.com>. This serves as verification that all components of a nomination package have been included. The remaining components of a nomination package shall be uploaded in the format indicated.

### **Nomination Submission Page**

Each nomination packet shall include a submission page in Microsoft Word or PDF file format with the following information:

1. Award category
2. Name and hull number of the ship
3. Name of the ship's awards point of contact
4. Telephone numbers for the ship's awards point of contact
5. E-mail address for the ship's awards point of contact
6. Mailing address of the ship
7. Name of nominating individual
8. E-mail address for the nominating individual
9. Telephone numbers for the nominating individual
10. Mailing address of the nominating individual

### **Narrative**

The narrative shall consist of single-spaced text (12-point font) in Microsoft Word or PDF file format and may use graphics (i.e., tables, charts, diagrams, photographs, maps) to clarify accomplishments. Graphic fonts, including photograph descriptions, should be no smaller than 10-point font.

The total text and graphics of the award narrative shall consist of no more than six (6) single-sided 8½" x 11" pages if/when printed, including cover pages. The narrative shall clearly address and follow the format of the judging criteria found in OPNAVINST 5090.1C of 30 Oct 07, Appendix D.

### **Narrative Summary**

Each nomination packet shall contain a summary (600 words maximum), separate from the narrative, which is cleared for use in articles and other outreach materials. The summary shall consist of single-spaced text (12-point font) in Microsoft Word or PDF file format on a single-sided 8½" x 11" page if/when printed (this page does not count against the six-pages-maximum limitation in the nomination narrative.)

The summary shall describe in non-technical language the ship's environmental program. The summary should also include four to six bullets (no more than 60 words per bullet) describing the most outstanding accomplishments by the command during the award achievement period. To the extent feasible, such accomplishments should be quantifiable (e.g., "improvements resulted in reducing net carbon dioxide emissions by 5,000 tons.").

# Naval Air Station Jacksonville; Environmental Restoration Team Award FY 2013

## NAS Jacksonville Partnering Team

### Background

Naval Air Station (NAS) Jacksonville (Jax) is a 3,400-acre facility located in northwest Florida. Its mission is to enable naval aviation warfighting readiness by supporting the Fleet, Fighter, and Family. NAS Jax was established on October 15, 1940, as an air defense strategic base to protect Florida's 1,200 miles of coastline from enemy attack. As a master anti-submarine warfare (ASW) and industrial base, NAS Jax maintains and operates facilities and provides services and materials to support aviation operations and units of the operating forces of the Navy and other activities and units, as designated by the Chief of Naval Operations. NAS Jax supports over 110 tenant commands and over 20,000 people during its daily operations. The installation consists of operational, industrial and administrative areas, housing units, a Navy Lodge, a Navy Gateway Inn and Suites, a hospital, restaurants, stores, a U.S. Post Office, a credit union, and other activities to accommodate its large population. Tenants include Fleet Readiness Center Southeast (FRCSE), Fleet Logistic Center Jacksonville, seven VP squadrons, four Helicopter squadrons, one reserve VP squadron, and two Fleet Logistics Support Squadrons.

Since the mid-1990s, several Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-based investigations, interim actions, and selected remedies have been implemented at NAS Jax under the direction of the NAS Jax Environmental Restoration (ER) Partnering Team (Team). The Team is comprised of representatives of the U.S. Department of the Navy, the U.S. EPA, the Florida Department of Environmental Protection (FDEP), and Navy contractors. The members are:

- Timothy Curtin, NAS JAX ER Program Manager
- Michael Singletary, Naval Facilities Engineering Command Southeast (NAVFAC SE) Technical Manager
- Adrienne Wilson, NAVFAC SE Restoration Project Manager
- Mark Peterson, Tetra Tech Project Manager
- Eric Davis, CH<sub>2</sub>MHill Project Manager



*A P-3 Orion, left, and the new P-8A Poseidon, both attached to VP-30 "Pro's Nest," fly in formation over NAS Jacksonville.*

- Todd Haverkost, Resolution Consultants Project Manager
- Peter Dao, U.S. EPA Region 4 Project Manager
- Jennifer Conklin, FDEP Project Manager

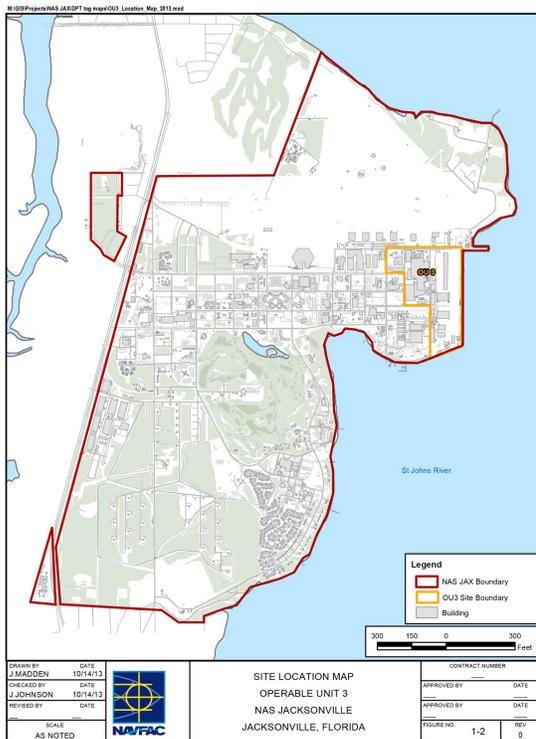
The NAS Jax Team was formed to navigate a path forward to successfully investigate, remediate, and manage the risks posed by contaminated waste sites located on the installation.

The Installation's hydrogeological, industrial, and ecological settings present unique opportunities to protect human health and the environment through the use of innovative technologies and methodologies for site restoration.

The ER Program at NAS Jax consists of 12 Operable Units made up of 58 potential sources of contamination. The Munitions Response program consists of 6 sites, and there are 27 sites under the Petroleum Program.

The NAS Jax Team has been successful in protecting human health and the environment through the use of emerging & innovative technologies. In addition, the NAS Jax Team has been able to significantly optimize the installation's remediation strategy, thereby reducing costs and the time required to complete the site investigation and remediation process.

## Position Description



*Map of  
NAS Jax  
showing  
OU3  
location*

- 1) Dense non-aqueous phase liquid (DNAPL) contaminant mass that has diffused into an extensive clay layer and acts as a continuing source to the groundwater plume;
- 2) Risks posed to site workers and building occupants through potential indoor air vapor intrusion (VI).
- 3) Verification that the groundwater plume had not discharged into the St. Johns River, adversely impacting surface water and sediment.

The NAS Jax Team reached consensus that an addendum to the RI/FS was required to fill in these crucial data gaps. The NAS Jax Team changed the remediation strategy from the original site-by-site multiple RODs approach to an OU3-wide, risk-based approach. The OU3-wide approach, which required a single ROD addendum to address the multiple commingled plumes at the site, was selected to minimize the administrative requirements, streamline the remedy evaluation and selection process, and allow for more creative risk-based approaches to site restoration.

## Summary of Accomplishments

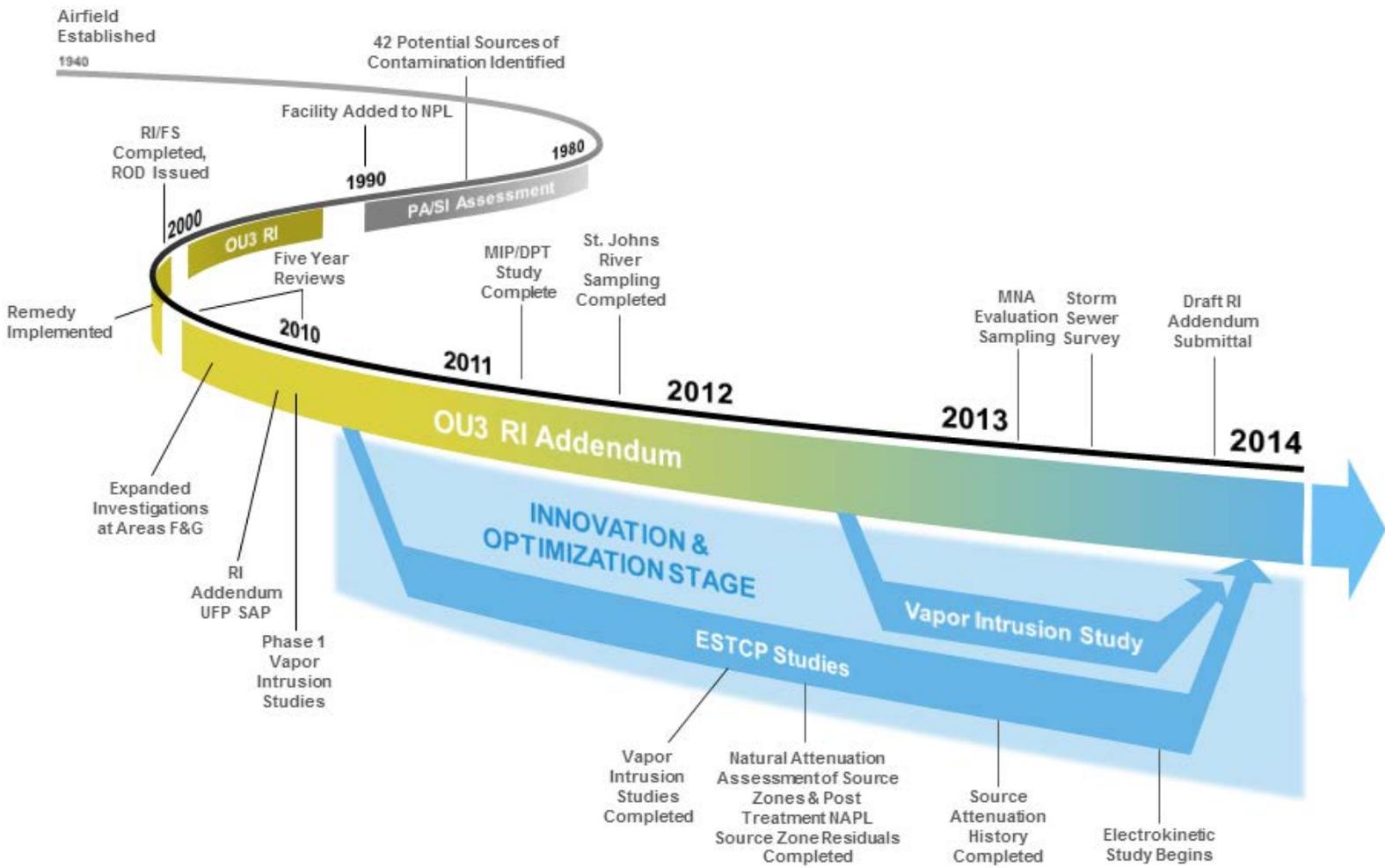
The NAS JAX Team set forth to implement a series of cutting edge, state-of-the-art investigations to support the development of an RI/FS Addendum, documenting current conditions that will support the development of an amended ROD for OU3. When complete, the amended OU3 ROD will be based on a site-wide, risk-based approach.

OU3 RI/FS Addendum activities have been conducted in part by using cutting edge technology demonstration projects, several of which have been conducted through DOD's Environmental Security Technology Certification Program (ESTCP). Site investigation activities have also included the development of advanced methods and approaches for evaluating VI into multiple industrial buildings. RI/FS Addendum activities have been conducted and the results communicated to FRCSE personnel and other stakeholders through a series of training sessions and meetings with union representatives. Public involvement has been achieved through the Restoration Advisory Board (RAB) and public meetings.

The most challenging sites at NAS Jax are the chlorinated solvent plumes at Operable Unit 3 (OU3). OU3 is the largest site at NAS Jax and includes over 100 buildings that have historically involved dry cleaning, painting, stripping, degreasing, and electroplating operations. These operations resulted in significant soil and groundwater contamination. The OU3 primary tenant is FRCSE.

In 1993 the NAS Jax Team began a multi-phase Remedial Investigation and Feasibility Study (RI/FS) that supported the development of the September 2000 Record of Decision (ROD). The former dry cleaner (former Building 106) and a former solvent recycler (Building 780) were determined to be primary sources of groundwater contamination at OU3. As a result, interim remedial actions (IRAs) were conducted and adopted as final remedy components, which consisted of air sparging with soil vapor extraction (AS/SVE) at former Building 106 and groundwater pump & treat and SVE at Building 780.

Following implementation of these remedial actions, several optimization studies were conducted. Results of the optimization studies and Five Year Reviews in 2005 and 2010 revealed the following data gaps in the conceptual site model (CSM):



**Partnership with ESTCP to Demonstrate Innovative Technologies at OU3**

The NAS Jax Team successfully partnered with ESTCP in demonstrating innovative technologies for characterizing the distribution of DNAPL contamination present in low permeability layers at OU3. Recent field and laboratory research has demonstrated that DNAPL contamination can penetrate via molecular diffusion into low permeability layers present in aquifers, and can be stored there for many decades.

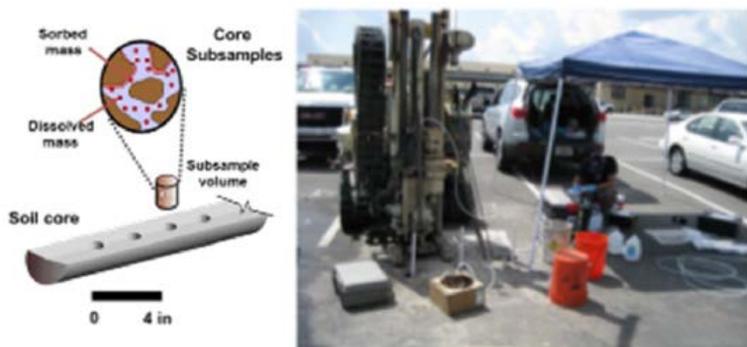
Stored contaminants can slowly diffuse out of low permeability layers over time, through a process called “back-diffusion,” and serve as long-term sources to groundwater plumes. The following innovative technologies were demonstrated at OU3 to improve the CSM of DNAPL distribution and to aid in the design of future remediation systems:

- a. High-resolution sampling of aquifer sediment and groundwater to delineate and estimate the amount of DNAPL mass diffused into low permeability layers,
- b. Membrane interface probe to characterize the geotechnical properties of clay layers and the presence of DNAPL contamination,
- c. On-site mobile laboratory and multi-level sampling equipment to delineate in real-time the presence of clay layers and to develop detailed profiles of contaminant mass in clay layers, and
- d. Modeling tools to evaluate the natural attenuation of contamination through long-term diffusion and biodegradation in clay layers.

The NAS Jax Team collaborated with ESTCP from 2011 to 2013 to implement an innovative high-resolution sampling strategy and a fate and transport modeling study to evaluate the impacts of DNAPL contamination stored in low permeability layers on long-term groundwater quality.

Through detailed soil coring and groundwater sampling, the team was able to determine that tetrachloroethene (PCE), trichloroethene (TCE), and dichloroethene (DCE) have penetrated 3 to 5 feet into a clay layer since the original release at the former dry cleaner in 1962. Contaminant fate and transport modeling and concentrations profiles in the clay layer demonstrated significant natural attenuation of the DNAPL source area over time through biological degradation as well as diffusion and sorption of contaminant mass in the clay layer itself.

These data obtained through the ESTCP project were used by the NAS Jax Team to update the CSM and to guide the selection and design of an enhanced bioremediation system that will target both the low permeability clay layer and the more permeable sand unit directly above the clay. In December 2013, a second ESTCP project was implemented at OU3 to demonstrate an innovative bioremediation technology to address the PCE source area. The first phase of the project involved injecting an emulsified vegetable oil substrate and microbial consortium to stimulate the biological reductive dechlorination of PCE in the more permeable sand unit located directly above the clay layer.



**High-resolution aquifer core sampling (Image courtesy of GSI Environmental, Inc.)**

The purpose of the initial phase is to reduce PCE contamination in the shallow groundwater, which also acts as a potential source of VI at nearby buildings. Following the initial round of bioremediation targeting the sandy aquifer unit, an innovative technology will be implemented to directly address contaminants stored in the clay layer using an electro-kinetic (EK) process to distribute biological amendments through a direct current electric field.

The EK bioremediation project targeting the low permeability clay will begin in 2014. Much of the design for this project, including the location and distribution of DNAPL contamination present in the low permeability layer, was based on the high-resolution sampling data obtained through the previous ESTCP project.

These collaborative projects with ESTCP provided the NAS Jax Team with crucial, hard-to-acquire information regarding the distribution of DNAPL contamination at OU3, resulting in a much improved CSM and design basis for future remediation. Through the partnership with ESTCP, the NAS Jax Team was able to leverage the existing budget for site remediation at OU3 with an additional \$1.5M in funding. Also, the NAS Jax Team was able to take advantage of cutting-edge research to solve real-world problems associated with managing complex groundwater sites.

### **Innovative Vapor Intrusion Assessment of Multiple Industrial Buildings**

The NAS Jax Team developed and implemented groundbreaking, innovative methods to investigate subsurface to indoor air VI within and near FRCSE. This three-phase project included: (1) a systematic screening and prioritization process to select the highest priority buildings; (2) use of emerging field and laboratory analytical methods; and (3) stakeholder involvement throughout the project. Accomplishments included:

1. Screening and prioritizing identified 12 buildings out of 167 potentially impacted buildings, which significantly reduced investigation costs.
2. Implementation of emerging sampling techniques with potential to provide significant long-term cost-saving benefits to the Navy.

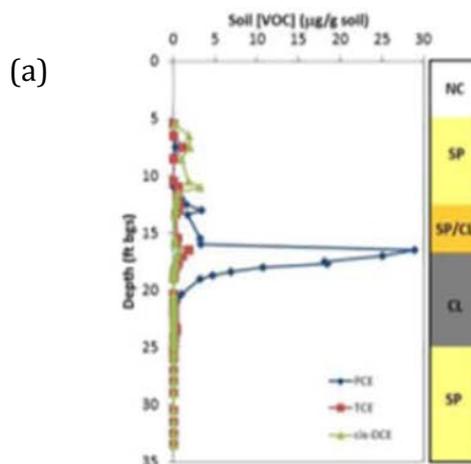
3. Minimization of impacts to operations at NAS Jax by selectively reducing the number of buildings identified for further evaluation through direct stakeholder involvement.
4. Demonstration of minimal potential for significant VI risks at the buildings of interest.

Phase 1 of the VI investigation identified buildings of potential interest for further investigation. From Phase 1, only 37 out of 167 buildings within the study area were retained. Phase 2 resulted in the selection of 12 primary buildings of interest. Phase 2 sampling consisted of traditional Summa canister sampling and emerging sampling techniques, including Vapor Pin™ sub-slab soil gas sampling equipment, HAPSITE portable gas chromatography/mass spectrometry (GC/MS) units, and passive samplers.

### Cost Minimization

Cost avoidance was achieved through the following focused approaches:

- The NAS Jax Team prioritized buildings for investigation in lieu of a more traditional site-wide, building-by-building investigation method. This approach reduced the scope and cost of the investigation and minimized interruptions to installation operations. Experience throughout the Navy ER Program shows that VI investigation costs are in the range of \$30,000 - \$100,000 per building, inclusive of planning, implementation and reporting across multiple phases of investigation. The innovative VI investigation approach implemented at OU3 was presented to all Navy RPMs at the 2013 Navy Remediation Innovative Technology Seminar (RITS) as the preferred method for evaluating VI at multiple industrial buildings. Broader implementation of this systematic approach will result in millions of dollars in cost savings.
- Involving facility managers, union representatives, and building occupants during up-front planning and during information collection activities reduced costs, accelerated the schedule, and minimized concerns of building occupants.



(a) Detailed profile of DNAPL contamination diffused into clay layer. (b) Results of modeling demonstrating significant natural attenuation of PCE (image courtesy of GSI Environmental, Inc.).

- Utilizing emerging and innovative technologies:
  - Cox-Colvin Vapor Pin™ subslab soil gas sample ports to eliminate set-up time.
  - HAPSITE GC/MS unit to increase data resolution and reduce the number of sampling events.
  - Long-duration passive samplers to reduce sampling frequency. It is estimated that the use of passive samplers can reduce costs by as much as 50 percent as compared to traditional sampling methods.



Cox-Colvin Vapor Pin™

- The use of the HAPSITE to delineate subslab soil gas in real-time precluded at least one phase of follow-up/data-gaps sampling at Building 103. This eliminated planning, sampling, analytical, and reporting costs by approximately \$10,000 - \$20,000. This approach is applicable at most Navy buildings, and could result in substantial program-wide savings.

### Innovative Technologies

**Vapor Pin™** subslab soil gas sample ports were used in place of traditional stainless-steel probes installed with cement to eliminate the time needed for the cement to cure; this significantly reduced the sampling period. Installation and leak testing of the Vapor Pins takes on the order of 20 minutes or less versus at least one hour for traditional methods, and eliminates the need for expensive high-purity helium and the rental of helium detectors.

The use of the **HAPSITE GC/MS** unit enabled the field team to identify the source area beneath the slab in real-time. This allowed for a targeted investigation approach, reduced disruption to the building occupants, and minimized cost by avoiding spatial variability sampling.

The inclusion of long-duration **passive samplers** provided the opportunity to perform a field-scale test of the technology and to perform a comparative study with the traditional technologies. It is estimated that the use of passive samplers can reduce costs by as much as 50 percent compared to traditional sampling.

A **tracer gas study** was performed using naturally occurring radon gas at the site to calculate the attenuation of this tracer gas across the slabs of several buildings. The use of naturally-occurring radon concentrations to calculate attenuation factors eliminates the uncertainty of background interference when alternatively basing the calculation on volatile organic compounds alone.

Using innovative technologies, the NAS Jax Team saved approximately \$250,000 on the VI assessment at OU3 compared to using traditional VI sampling and investigation methods. Through its phased VI investigation process, the NAS Jax Team demonstrated that VI does not represent a significant human health risk for any of the occupied buildings at OU3.

### Stakeholder Involvement

In the absence of detailed VI policy and guidance at the state or federal level, it was essential to educate the team stakeholders (i.e., regulators and other partnering team members) on the current science, best practices, and policy of VI early in the investigation to minimize document review and approvals by creating early consensus on the technical approach.

Early involvement of stakeholders outside of the NAS Jax Team was critical to ensuring risk communication and effective public relations. Administering a comprehensive building questionnaire and distributing it to facility managers, union reps and building occupants, resulted in a vast database of information related to building histories and construction characteristics. Additionally, building occupants were extensively involved in the investigation planning process through day-to-day cooperation with the NAS Jax ER Program Manager.

Due to the presence of extensive sub-slab utilities and the large number of building occupants, it was determined the team would forego invasive sub-slab drilling at Buildings 101 and 780. As part of the public relations process, field team personnel were trained to interact with and to communicate accurate and timely information to building occupants during the field events to maintain trust. Finally, fact sheets were developed to quickly and easily communicate investigation status information to the stakeholders.



*Long-duration passive samplers*

## Acquisition Strategy

The NAS Jax Team pioneered the use of the Environmental Technical Services (ETS) method of contracting. This approach to contracting uses previously negotiated costs for items specific to ER projects. The NAS Jax Team uses the ETS contract to quickly and cost-effectively award contracts to small businesses for long-term monitoring and remedial action services. Use of this contracting vehicle has significantly reduced the time to prepare an estimate for contract award and to receive a proposal from the contractor. Traditionally, a contract award would take 4 to 6 weeks. The ETS contracting method typically takes 1 to 2 weeks from the initial scoping process to final award.

Use of the ETS contract over traditional contracting methods has routinely resulted in cost savings of at least 25% for individual task orders. Additionally, this contracting option allows the NAS Jax Team to significantly increase the use of small business contractors on ER projects.

## Conclusions

The NAS Jax Team has demonstrated excellence in environmental restoration by successfully implementing innovative and cost-effective technologies for investigating and managing the risks associated with complex chlorinated solvent plumes at OU3. The NAS Jax Team's success is the result of numerous effective partnerships, including DOD's ESTCP applied research program. Through this partnership, the NAS Jax Team was able to take advantage of cutting edge research on the delineation and assessment of DNAPL contamination stored in low permeability layers. This persistent contamination has shown to be extremely difficult to remediate using traditional technologies. Building on successful initial efforts to delineate and understand the DNAPL mass present in these clay layers, the NAS Jax Team will take the next step to demonstrate an innovative electro-kinetic bioremediation process to remediate DNAPL contamination.

The NAS Jax Team was also able to develop state-of-the-practice methods for evaluating VI at numerous industrial buildings at OU3 through the use of innovative technologies (e.g. real-time HAPSITE

sampling equipment, long-term passive sampling devices, radon tracer studies) and effective partnering with state and federal regulatory agencies and NAS Jax building occupants. The NAS Jax team has shared these cost-effective and innovative VI investigation approaches with other Navy RPMs and remediation practitioners through publications and presentations at training seminars and technical conferences.

The NAS Jax Team's commitment to continuous optimization and the use of innovative technologies at OU3 has resulted in a total cost avoidance of approximately \$2.5M to date. In addition, the successes and lessons learned through demonstrating innovative technologies at NAS Jax have been shared throughout the Navy.

## Awards and Services

NAS Jax received the Commander-in-Chief's Installation Excellence Award in 2011, 2012, and CNRSE 2013. To transfer the innovative technologies and approaches implemented at NAS Jax, the Team has published technical papers and presented at the following technical conferences and training seminars:

**Quantitatively Ranking and Selecting the Highest Priority Buildings for Application of Traditional and Emerging Investigative Technologies During a Phase 2 Vapor Intrusion Assessment.** Presented at the 2012 Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA May 2012.

**Vapor Intrusion: Where Are We Today?** Case study information from NAS Jax used in the Navy's Remediation Innovative Technology Seminar (RITS). May 2013.

**Membrane Interface Probe Protocol for Contaminants in Low-Permeability Zones** in the Journal *Ground Water*. 2014

**Field Application of Emerging Vapor Intrusion Investigation Methods to Reduce Uncertainties and Improve Efficiency.** Accepted for Presentation at the 2014 Battelle Conference on Remediation of Chlorinated and Recalcitrant Compounds, Monterey, CA May 2014.

**High Resolution Site Characterization.** Case Study Information from NAS Jax will be in the Navy's RITS in 2014.