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NAS CORPUS CHRISTI  
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TIER 1 PARTNERING TEAM MEETING MINUTES 30 APRIL 2007 NAS CORPUS CHRISTI TX  
4/30/2007  
NAS CORPUS CHRISTI

Minutes (DRAFT)  
NAS Corpus Christi Tier I Partnering Team Meeting  
April 30, 2007  
1:00 pm (Central)  
TCEQ Offices, Austin, Texas

**Attendees:**

Chris Siegel	TCEQ	(512) 239-2992	(Team Leader)	CSiegel@tceq.state.tx.us
Helen Lockard	NAVFAC SE	(843) 820-5567		Helen.Lockard@navy.mil
Bob Sturdivant	EPA	(214) 665-7440		sturdivant.bob@epa.gov
Debra Humbert	TtNUS (via phone)	(412) 921-8968		Debra.Humbert@ttnus.com
Mike Hilger	NASCC	(361) 961-3776		michael.hilger@navy.mil
Diane Lindsay	TtNUS	(832) 251-6019	(Scribe)	Diane.Lindsay@ttnus.com
Larry Basilio	TtNUS	(832) 251-6018		Larry.Basilio@ttnus.com
Rey Aleman	NASCC	(361)961-5363		reynaldo.alemen@navy.mil
Candace Watson	Management Edge	(813) 831-4830		cwatson@tampabay.rr.com

**Opening/Agenda and Action Item Review**

The Naval Air Station Corpus Christi (NASCC) Tier I Partnering Team meeting convened at 1:00 pm, April 30 2007 at the TCEQ offices in Austin, Texas. Chris Siegel (TCEQ) welcomed everyone to the meeting.

Rey Aleman (NASCC) was introduced to the team. He will be transitioning into Mike Hilger's position as the NASCC Partnering Team member. Rey is the Lead Environmental Protection Specialist at the installation. He also works closely with CCAD on environmental issues.

Diane Lindsay (TtNUS) provided the Team with the minutes from the October 18, 2006 Partnering Meeting and the Draft January 24, 2007 partnering meeting minutes for review. The minutes were approved as written.

A review of the meeting agenda was performed. The agenda was approved as written.

The Team reviewed the action item list and consensus table from the Jan 24<sup>th</sup> Partnering Meeting. A summary of action items follows.

Action Item 1006A03 is open. Helen stated that the Work Plan has been held up by the ESS approval process. The original ESS was completed in accordance with NOSSA policy 8020.15. EPA then came out with 8020.15A and NAVFAC, NASCC and TtNUS are currently working to reformat the ESS per the new policy. The new policy requires that site access request forms to be completed and submitted with the ESS.

Action Item 1006A04 is open. Helen Lockard (NAVFAC SE) is looking into the brush clearing /brush disposal requirements at NALF Cabaniss.

Action Item 1006A05 is open. Helen is verifying procedures required to contact/notify adjacent property owners with Navy Public Affairs. Helen is working with Bob Torrez (NASCC), the base point of contact. Issues that still require resolution are what will need to be included as part of the landowner notification (notification is for the sampling effort on the opposite (south) side the river from Cabaniss.

Action Item 0107A01 is open. Mike will provide disposal procedures for free-product disposal collected from REI-24 (near DRMO). Current idea is to use a well sock to remove the free standing product. The

amount of free product for disposal is estimated to be less than 10 gallons and will be drummed and stored in the filter carbon house prior to disposal.

Action Item 0107A02 is complete. The NAVFAC SE and TCEQ held a conference call to discuss the PCL issues.

### **IR Site Update**

Helen provided an update of the IR sites. The annual sampling event was held February 14<sup>th</sup> through 23<sup>rd</sup>, 2007. Sampling was postponed due to funding issues. The IR site wells will be resurveyed using GPS and damaged well caps will be repaired. There appears to be some missing information in the sampling report (GPS coordinates were omitted from the report, Well No. R2 was not located and thus not sampled, etc.). Building 8 analytical data for TCE was rejected. The Building 8 wells have been set-up as perimeter wells for plume management and have historically been clean. Helen will get with the contractor to address these items.

The GAC/French drain system is currently in operation. The GAC was changed-out due to break-through in February/March and was down for approximately eight days. The contractor has been asked to bail free product bi-monthly from REI-24. IDW disposal is currently being coordinated (see Action Item 0107A01). Debbie noted a better option to a skimmer might be Universal Remediation Inc.'s "Well Boom" product. The Well Boom not only absorbs free product but it also promotes bio-degradation of the absorbed hydrocarbons.

### **Ground Water Compliance Plan Application Update**

Diane Lindsay (TtNUS) stated that since the last meeting TtNUS has performed some follow-up work necessary to support the compliance plan application. The work included installing two wells, collecting soil samples at the DRMO, repairing two well collars, and installing multi-lingual IR Site signs. TtNUS was originally contracted to install 3 wells, but TtNUS relocated one of the original wells while in the field. TtNUS also surveyed the new wells using a GPS. Sample results have been received and validated and TtNUS is now preparing the internal draft of addendum to the RFI report for Navy review. The results indicate values are below Tier 1 PCL values.

Helen, Diane, Larry Basilio (TtNUS), Chris and Larry Champlain (TCEQ - eco) held a conference call earlier this month to discuss the chlorobenzene PCL issue that has come up as part of the Compliance Plan (CP) application. Helen provided the Team with the handout/presentation used during the discussion and photos for reference, to assist those team members not familiar with the site. The handout contains plume concentrations at the site since 2004 and provides photos of Drainage Ditch 3 and other points of interest. During the conference call with TCEQ, Larry Champlain suggested that a chlorobenzene level of 1,100 ppb (reference: Oakridge National Laboratory guidance) could be used as a benchmark at this site. Selection of this acute level is based on the site conditions and would be more applicable than the current chronic value (current chlorobenzene PCL for NASCC is 64 ppb). Drainage Ditch 3 is dry for most of the year, only having standing water or small intermittent flows during times of precipitation. TtNUS also evaluated the acute level versus other eco-risk alternative guidance. Since the acute number (1,100) is based on fish species, one recommendation was to perform eco-risk evaluation of other site-specific benthic animals to recalculate the PCL. However, these studies would require additional time and would not necessarily provide a less stringent PCL (preliminary estimate was a PCL of ~2,000 ppb). Chris mentioned that since not all of the POE wells were installed when the APAR was submitted, the groundwater to benthic pathway was not fully investigated. Chris believes that Larry Champlain did not get a chance to review the APAR a second time after the wells were installed and groundwater data was available. This may be why the chronic value (64 ppb) was used.

Helen mentioned that the trench closest to the treatment system (Trench 1) seems to be a losing stream. NAVFAC would like to look at options for shutting down the treatment system by applying the groundwater standard at this trench, and proposes installing piezometers to record the level of standing water over time to show that it is, in fact, a losing stream. If it is proven that the trench is in fact a losing stream the treatment system could be turned off without having to update the CP. Turning off the system would need to be a decision by the Team (i.e., consensus decision) and the CP could be amended at a later date.

The Team decided that for now the PCL value of 1,100 ppb will be used in the CP application. It was noted that the groundwater ingestion PCL for chlorobenzene is 10,000 ppb and the surface water value for human health is 13,800 ppb (all of NASCC samples would fall within these criteria). Chris stated that in the meantime (between CP amendments), if the data supports, an adjustment of the PCL can be handled internally within TCEQ and the partnering team, and should not trigger a CP amendment. The CP can then be amended or modified at a later date (i.e., in 10 years).

Chris Siegel will confirm if changing the PCL would trigger an amendment (Action Item 0407A01).

TtNUS will look into the best types of gauges (stream gauge vs. piezometer) for this application. TtNUS will verify that the stream has been designated as intermittent stream on USGS mapping (Action Item 0407A02).

Helen will look at installation of the stream gages and monitoring frequencies (i.e., every other month) (Action Item 0407A03).

NAVFAC will move forward with submitting the CP application. Chris stated that after the CP is developed, then the site will move into groundwater monitoring phase, which would typically be performed biannually. Once the area is assessed, and as the plume shrinks, wells can be removed from the sampling program. Chris recommends establishing plume management zones (PMZs) before submitting the CP, which can reduce monitoring. A PMZ sets up points of exposure. Once NAVFAC shows that the PMZ is stable and concentrations are decreasing, then monitoring can be reduced and possibly stopped. PMZs are usually set up as transects (in lines). If possible, Chris would like to see an amended RAP submitted along with the CP to reflect the PMZ change. Chris recommends setting up PMZs for sites where contamination will be present for awhile. Public notice will also have to be made along with the change of the RAP. Due to funding constraints, NAVFAC may postpone submittal of the amended RAP, but will try to select CP wells that will support setting up PMZs at a later date when funding is available.

### **Munitions Response - NALF Cabaniss**

Helen stated the revised ESS was submitted in November 2006 to the Naval Ordnance Safety and Security Activity (NOSSA) for review. Comments (NOSSA, Rick Urbansky) were received from NOSSA in January 2007 and a conference call was held with NOSSA in March to resolve the comments. As mentioned earlier, policy 8020.15A has changed the submittal. NAVFAC is awaiting signatures (Hal and Public Works Officer) and finalization of site access forms (Action Item 0407A04). Once the ESS is approved by NOSSA, the document will be sent to the Department of Defense Explosives Safety Board (DDESB) for final approval. The final HAZMAT locker location at NALF Cabaniss and access will need to be addressed to gain Mr. Urbansky's final approval (Action Item 0407A05). The Team discussed transport procedures for blow-in-place explosive charges (ammunition) at the site. TtNUS and Navy will resolve storage locker needs (shelves or not) (Action Item 0407A06). Helen stated that funding has been received for the Corpus Christi range complex site investigation and that TtNUS should be receiving notice of this additional work.

## **Tier II Update**

Debbie Humbert (TtNUS - Tier II) provided the Tier II Update. The Tier II Team met April 10-11<sup>th</sup>. The team met face-to-face to address new member orientation. The team has had a few member changes: Mike Hallil replaced Scott Smith from CH2MHill; Allen Posnik replaced Kathy Remmert (TCEQ); and, Jeff Adams replaced Rick Davis (NAVFAC SE). The NASCC PCL issue was discussed, but based on today's meeting, this issue appears to have been addressed. Tier II had a general discussion of MRP at Navy sites. The Navy plans to have all of the SIs completed by FY2010 at Navy sites, and then will move into the RI-FS stage. Tier II discussed team member integration, and Debbie commented that with our new member, Rey Alemen, the NASCC Partnering Team should look at integrating strategies. Tier II also addressed partnering team exit strategies. A two-day "Basics of Partnering Workshop" is in the works, and it looks like members of the NASCC team could benefit from this training. This workshop is scheduled for sometime in the next 6-9 months. Candace requested information from Debbie regarding the new member orientation (Action Item 0407A07). Mike Hilger (NASCC) stated that he had provided Rey with a copy of the partnering meeting ground rules.

## **IR Schedule Update**

Helen provided an update of the IR schedule to the Team (see attached). In summary, Helen will verify restoration schedule dates with the CP application (Action Item 0407A08). The ESS has delayed a number of items. Helen will forward copy of IR update to Debbie.

## **Close: Meeting Evaluation / Set Next Meeting Date / Wrap-Up**

The Team discussed the next meeting date (see below). NASCC was selected as the meeting location due to the MRP possibilities, but a conference call was not ruled out. The team will exchange emails the month before to check on everyone's availability. Helen Lockard is the Team Leader for the next Tier I Team meeting. It was decided since funding was not available for additional invitees to travel; they may be tied in via teleconference. The Team reviewed the action item list.

The meeting adjourned at approximately 3:00 pm.

Next Meeting Date: Wednesday, 25 July 2007

Time: 9:00 am CST

Location: Conference call or at NASCC, pending need and funding

Team Leader/Gatekeeper: Helen Lockard (NAVFAC SE) / Bob Sturdivant as Alternate

Plus/Delta:

Pluses

1. Efficient with time
2. PCL issue/1,100 ppb settled
3. No break
4. Creative thinking
5. Welcome of new member - Rey
6. Meeting scheduled with the TCEQ Conference - again, efficient use of time

Deltas

1. None

## NAS CORPUS CHRISTI PARTNERING TEAM MEETING

April 30, 2007

1:00 PM

Team Leader: Chris Siegel

Scribe: Diane Lindsay

1300	Welcome / Introductions/ Role Call (Diane)	(5 min)	Chris/Diane
1305	Review Agenda / Adjust as necessary	(5 Min)	Chris
1310	Review / Approve January 24 <sup>th</sup> Meeting Minutes	(10 min)	Helen/Chris
1320	Review Action Items	(10 min)	Chris/Diane
1350	IR Site Update	(30 min)	Helen
1400	Ground Water Compliance Plan Application Update	(30 min)	Diane/Helen
1430	Break	(15 min)	
1445	Munitions Response, Cabaniss	(30 min)	Helen
1515	Tier II Update	(15 min)	Cathy
1530	IR Schedule Update	(15 min)	Helen
1545	Partnering Training	(30 min)	Candace
1615	Close: Meeting Evaluation / Set next meeting date	(20 min)	Chris
1635	Wrap Up: Questions / Review of Action Items / Discussions / Issues / Training needs for next meeting	(15 min)	Chris
1650	Facilitator Evaluation	(10 min)	All

**Restoration Schedule Updates  
10/19/06**

**6. Cutoff Trench (IR Sites)**

ID	Resource Name	Task Name	Duration	Start	Finish
179	ES RPM/ES Technical Support	System Optimization		11 Apr 05	15 Jan 07
180	BOA	Long Term Maintenance	10 Years	13 July 05	1 July 15
	ES RPM/USGS	Geophysical survey MW REI-24		1 Feb 06	18 Oct 06
	BOA	MW REI-24 DPT samples, resurvey wells		1 Jan 07	30 Jan 07
	Clean IV	IR Site Signs		Coordinate with Well Installation/DRMO borings	31 Dec 07

**7. Compliance Plan Application**

ID	Resource Name	Task Name	Duration	Start	Finish
148	Clean IV/ES RPM	Compliance Plan Application		1 Apr 05	27 Dec 05
	TCEQ/ES RPM	Draft Review			1 Mar 06
149	TCEQ Permits	Initial Review	30 Days	1 Dec 06	
150	Clean IV	Response to NOD	30 Days		
151	TCEQ Permits	Review of NOD Response	14 Days		
152	TCEQ RPM	Initial Technical Review	30 Days		
153	Clean IV	Response to NOD	30 Days		
154	TCEQ RPM	Review of NOD Response	14Days		
155	Clean IV	Response to Second NOD	30 Days		
156	TCEQ RPM	Review of Second NOD Response	14 Days		
157	TCEQ RPM	Draft Initial Permit	30 Days		
158	Public	Comment Period	30 Days		
159	TCEQ RPM	Review Public Comments and Draft Final Permit	30 Days		
160	Chief Clerk	Mailing of Notice by CCO	7 Days		
161	Chief Clerk	Publication of Notice	30 Days		
162	Chief Clerk	Comment Period	30 Days		
163	Chief Clerk	Set for Agenda Compliance Plan	14 Days		

**8. RAO (IR Sites and Bldg 8)**

ID	Resource Name	Task Name	Duration	Start	Finish
60	BOA	Submit 3 <sup>rd</sup> Year Final Annual Monitoring Report		30 Jan 06	31 Oct 06
61	BOA	4 <sup>th</sup> Year Monitoring	30 Days	1 Jan 07	30 Jan 07
62	BOA	Submit 4 <sup>th</sup> Year Final Annual Monitoring Report	60 Days	30 Jan 07	30 Mar 07

## 10. Partnering

ID	Resource Name	Task Name	Duration	Start	Finish
146h	Partnering Team	Team Meeting	1 Day	19 July 06	19 July 06
146i	Partnering Team	Team Meeting	1 Day	18 Oct 06	18 Oct 06
146j	Partnering Team	Team Meeting	1 Day	18 Jan 06? Telecon? Coordinate w/MRP?	18 Jan 06?

## 11. Munitions Response Program – NALF Cabaniss

ID	Resource Name	Task Name	Duration	Start	Finish
	Clean IV	Plan of Action		31 Jan 06	13 Apr 06
	ES RPM	Notice to Proceed	1 Day	19 Apr 06	19 Apr 06
	Clean IV/ Partnering Team	Kickoff Meeting	1 Week	21 June 06	23 June 06
	Clean IV	Subcontractor Procurement	125 Days	17 Feb 07	21 June 07
	Clean IV	Workplans & Explosive Safety Submission	258 Days	29 May 06	15 Dec 06
	Clean IV	Field Investigation	42 Days	1 Feb 07	15 Mar 07
	Clean IV	Laboratory Analyses	64 Days	15 Feb 07	15 Apr 07
	Clean IV	After Action Report	72 Days	1 May 07	1 Aug 07
	Clean IV	PA/SI Report	161 Days	1 May 07	1 Aug 07
	Clean IV	EGIS	110 Days	30 July 07	28 Dec 07

## 12. Compliance Plan Application Follow-Up Work (DRMO Samples, Well Installation)

ID	Resource Name	Task Name	Duration	Start	Finish
	Clean IV	Plan of Action		20 July 06	9 Aug 06
	ES RPM	Notice to Proceed	1 Day	30 Aug 06	30 Aug 06
	Clean IV	Subcontractor Procurement	30 Days	2 Oct 06	31 Oct 06
	Clean IV	Workplans	55 Days	14 Sept 06	15 Nov 06
	Clean IV	Field Investigation	10 Days	1 Dec 06	15 Dec 06
	Clean IV	Laboratory Analyses	28 Days	2 Dec 06	15 Jan 07
	Clean IV	MW Installation Report	52 Days	15 Jan 07	1 Apr 07
	Clean IV	SI Report	106 Days	15 Apr 07	7 Sep 07
	Clean IV	EGIS Update	255 Days	30 Aug 06	21 Sep 07

**NAS Corpus Christi  
Tier I Partnering Team  
Consensus Table<sup>(1)</sup>**

<i>Meeting Date</i>	<i>Issue</i>	<i>Decision</i>
January 23, 2001	ERA Submittal	Submit the amended ERA without collecting additional samples
April 17, 2001	Sediment Investigations	Sediment sampling at the outfall of SWMU 274 will not be included in the current APAR.
	Non-IRP SWMUs	All of the non IRP SWMUs will be investigated separately from the current APAR.
July 24, 2001	IW and floor drains	Floor drains will be inspected and completely grouted as a part of the response action [and will be detailed in the response action plan (RAP)]. Monitoring wells will be installed and sampled after CCAD has made repairs to the IW sewer line.
	GIS System	Primary benefit of using GIS comes in the investigation phase. Because this team is now moving out of the investigation phase into the response action phase, a decision not to pursue conversion at this time was made.
October 16, 2001	Provision to RAP Pertaining to Deeper Aquifer	Include a provision in the RAP to sample the existing deep-aquifer monitoring wells quarterly for one year.
July 23, 2002	Groundwater Water Flow from Ditch	Place a staff gauge in the ditch to demonstrate that the drain would influence the groundwater flow direction away from the ditch and into the drain for removal and treatment
	CCAD Briefing	Conduct a briefing to the CCAD of their project status.
January 21, 2003	Chlorobenzene concentration in groundwater adjacent to southern portion of the drainage ditch are only slightly above the 64 ppb ecological benchmark	A dilution factor will not be allowed and installation of all three segments of the French drain will proceed.
April 16, 2003	Changing mowing height to allow wildflowers to grow at the IR sites; would this trigger a change in land use?	Signs posted at the sites reading "No Recreational Usage or Soil Disturbance" would adequately address the issue.
July 22, 2003	Delineation of TCE north of Building 8	The team agreed that monitor wells ES-22 and ES-30 would not need to be replaced with wells screened at the base of the aquifer, but one new well would be installed along the storm drain, between ES-28 and ES-26, screened at the base of the aquifer.
Oct 20, 2004: 1004DO1	Groundwater Sampling Report	Consensus by Team to move to annual sampling on IR sites for Bldg 8.
Oct 20, 2004: 1004DO2	Final RAP for Bldg 8 and Final RAP for SWMUs 1,3, and 4	Team determined appropriate sign off signature for Final RAP Bldg 8 and Final RAP for 1, 3, and 4 is D. Byerly.
Jan 26, 2005: 0105DO1	IWTP SWMUs 334-348	Consensus agreed upon for an extension to 01 Aug 05 for response to TCEQ letter dated 15 Oct 04.

Note: (1) Only the most recent Consensus Items are listed. For a historical listing, refer to previous meeting minute records.

**NAS Corpus Christi  
Tier I Partnering Team  
Action Items <sup>(1)</sup>**

<b>Date/#</b>	<b>Item</b>	<b>Who</b>	<b>When</b>	<b>Status</b>
0706A01	Provide email correspondence to the TCEQ (Chris) requesting due date extension for the submittal of the optimization report.	Helen	7/31/2006	Complete
1006A01	Send compliance plan schedule to Helen (NAVFAC SE).	Chris	11/7/2006	Complete
1006A02	TCEQ will respond to Helen (NAVFAC SE) on the PCL evaluation.	Chris	12/15/2006	Complete
1006A03	Provide a heads-up to the TCEQ and EPA as to the approximate delivery date of the NALF Cabaniss Work Plan.	Helen	11/7/2006	Open
1006A04	Determine if brush clearing at NALF Cabaniss will require disposal.	Helen/Diane	11/15/2006	Open
1006A05	Verify the procedure for contacting off-site owners with Navy Public Affairs.	Helen	11/15/2006	Open
1006A06	Call and verify that the Administrative Record is at the Corpus Christi Library.	Diane	11/15/2006	Complete
0107A01	Provide disposal procedures of the free product and materials associated with REI-24.	Mike	2/17/2007	Open
0107A02	Set date for PCL meeting in Austin.	Helen	2/15/2007	Complete
0407A01	Confirm if changing the PCL would trigger a modification or an amendment	Chris	5/21/2007	
0407A02	Investigate best gage types (stream gage vs. piezometer) for use in Trench 1, verify USGS mapping for intermittent stream designation of Trench 1	Diane/Larry	5/21/2007	
0407A03	Look at installation of the stream gages and monitoring frequencies	Helen	5/21/2007	
0407A04	Send NAVINST Site Access forms to Mike and assist in finalizing	Helen	5/21/2007	
0407A05	Assist Helen in finalizing (including determination of locker location at NALF Cabaniss) site access forms and getting signatures (Hal and Public Works Officer)	Mike	5/21/2007	
0407A06	Resolve TtNUS storage locker needs (shelves or not)	Diane / Rey	5/21/2007	
0407A07	Send new member orientation information and associated exercise to Candace	Debbie	5/21/2007	
0407A08	Verify restoration schedule dates with the CP application dates	Helen	5/21/2007	

Note: (1) Only ongoing and current Action Items are listed. For a historical listing, refer to previous meeting minute

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