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NAS CORPUS CHRISTI
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TELECOMMUNICATION TRANSCRIPTION OF PARTNERING TEAM MEETING MINUTES 21
SEPTEMBER 2010 NAS CORPUS CHRISTI TX
9/21/2010
NAS CORPUS CHRISTI

NAS CORPUS CHRISTI PARTNERING TEAM MEETING MINUTES

September 21, 2010 0815-1030 CDT

Teleconference

NAS Corpus Christi, Corpus Christi, Texas

1. Attendees:

- Navy: Leanna Woods Poon
Helen Lockard
Gary LeFlore
- TCEQ: Chris Siegel
- EPA: Tara Hubner
- Management Edge: Candice Watson
- Tetra Tech: Ken Grim
Larry Basillo
Fred Grosskopf
Bridget Twigg

2. Welcome / Role Call / Review Rules

- The meeting started at 08:15 with brief introductions.
- After introductions, the team reviewed the meeting rules as included in the Charter:
 - Be professional and respect each other.
 - Be open and honest in all communications.
 - Attend team activities.
 - Be forward thinking, not letting old issues hinder team progress.
 - Ensure that there are no surprises.
 - Consensus process will be used to make decisions.
 - No side bar discussions during meetings including cell phone calls.
 - Do not interrupt others while they are speaking.
 - Partners will delegate their consensus making authority when necessary.
 - Call "Time Out" whenever needed.
 - Stay for the hard part.
 - Leave positions, egos, and agendas at the door.
 - Turn cell phones off or to 'vibrate'.
 - No non-essential computers during the meeting.

3. Review Agenda / Adjust as necessary

- Candice suggested moving Tier II Update to end of the meeting, as Helen will be late joining the meeting. Suggestion was accepted by the group.

4. Meeting Minute / Action Item Review

- The minutes were approved as presented.
- Action Item list was reviewed and updated including several of the tasks that were completed. A copy of the current action items are attached to these meeting minutes.

5. Tier II Update

- Helen gave an update on the Tier II meeting. She stated that the Texas Tier II team had a meeting on August 18-19, 2010, in Fort Worth, TX. Helen was able to personally attend meeting so review meeting minutes from Tier II meeting.
 - The Tier II group reviewed each team in Texas and the status of environmental restoration at the sites.
 - Navy has not decided who will replace or fill-in for Leanna after she leaves.
 - TCEQ is reorganizing and Bill Shafford is the new TCEQ manager for Voluntary Clean-Up, Brownfields, and Corrective Action Records. PST section is completely different group now.

- TCEQ is not currently replacing openings but routing work to other regions, due to an employment cap.
- TCEQ is undergoing a state law agency review (Sunset) which is done every 10 years on every state agency to determine the necessity and direction of the state agency. The results are to be released in November 2010.
- There was a call for "Success Stories" from the Tier II Team. Helen and Leanna suggested that once the NAS Corpus Christi Team completes the Remedial Investigation (RI) at NALF Cabaniss, it may be a success story to discuss how multi-increment sampling (MIS) was used to complete the ecological risk assessment.
- Had training on understanding the impact of generational differences.
- Next face-to-face meeting scheduled for March 2011.

6. Munitions and Explosives of Concern (MEC) & Munitions Component (MC) Investigation at NALF Cabaniss

- Tetra Tech had prepared the Unified Federal Program Sampling and Analysis Plans (UFP SAPs) for the Cabaniss sites (one for MEC/munitions potentially posing explosive hazard (MPPEH), one for MC at the former skeet range, and one for MC at the former incinerator disposal site). Tetra Tech has received and is addressing Navy comments on the UFP SAP for the MC investigation at the Incinerator Disposal Site.
- Tetra Tech has received additional comments from Chris on the UFP-SAP for MEC portion of the investigation, and comments have been incorporated. SAP has not been issued as final yet, but will be shortly. Two weeks ago a meeting was conducted on base for the commanding officer to discuss the controlled burn planned for the site. Approval for the burn plan is forthcoming from base commander. Fire Chief requested phone number for Skipper. Burn Plan is ready to be sent to Skipper for approval and signatures. Will then be sent to Corpus Christi Fire Marshal and TCEQ for review and approval. Burn is tentatively planned for late November 2010.
- ESS for the burn has been submitted to NOSSA and DDSB. Tetra Tech received one comment on a figure, which is currently being revised. ESS has been submitted to the Navy. Leanna has reviewed ESS and will send on to NOSSA for approval.
- Tetra Tech received and addressed comments from the TCEQ regarding the MC UFP-SAP. Comments were focused primarily on the ecological sampling division into zones. Tetra Tech sent out revised MC UFP-SAP to Chris (TCEQ) and Tara (EPA) with all comments addressed. Chris added that he will begin review of newly updated SAP by the end of the week.

7. MC Investigation at NALF Waldron

- MC Investigation reports have been submitted to the regulators for review and comments. Tetra Tech has recommended the site proceed to the Remedial Investigation (RI) phase based on exceedances of Polyaromatic Hydrocarbons (PAHs) in the soils. Minimal lead exceedances were detected as well. The Navy's deadline for finalizing the Site Investigation (SI) reports is the end of September, 2010. Currently Tetra Tech is awaiting regulator comments before finalization. Tetra Tech is expecting to meet end of the month deadline for finalized SI report by incorporating the remaining TCEQ comments on the SI Report into the UFP SAP for RI activities at the former Skeet Range. The partnering team agreed that this would be acceptable to meet the Navy's submittal date requirements.

8. MC Investigation at NAS Corpus Christi

- Chris requested more information on the Tier II analysis for the gunnery range, noting that the gunnery range should be broken down into the individual ranges. Chris also requested more information on how L1 and L2 are calculated. Chris stated these comments can be addressed in the RI.
- Tara's comment on the Gunnery Training Complex was in regards to the asphalt possibly being the source of the PAH exceedances. Wanted to include a historical aerial photograph with exceedance locations overlaid for comparison. Larry stated the asphalt roadways were

taken into consideration when examining the PAH exceedance locations to determine necessary further action required or no further action required per individual ranges. As a result, two ranges (South Trap Range and North Trap Range) went from further action to no further action recommendations. Aerial photographs, if visibly useful, may be included into an addendum for the SI Report.

- Chris will send out preliminary comment letter to Tetra Tech today or tomorrow, to be followed by a formal comment letter later in the week.
- Tetra Tech is expecting to meet end of the month deadline for finalized SI report by incorporating the remaining TCEQ comments on the SI Report into the UFP SAP for RI activities at the Gunnery Training Complex. The partnering team agreed that this would be acceptable to meet the Navy's submittal date requirements.

9. NAS Corpus Christi Installation Restoration

- Draft Response Action Completion Report (RACR) for SWMUs 1, 3, and 4 have been sent out to Chris and Tara today for review and approval. Tetra Tech is recommending closure on SWMUs 3 and 4 however SWMU 1 would remain open.
- Leanna is expecting sampling results from the last round of sampling and will look at Chlorobenzene levels. The 2009 and early 2010 analytical results indicate that the groundwater discharge from SWMU 1 continue to exceed the 1.1 milligram per Liter (mg/L) limit for Chlorobenzene. Another sampling round is to be conducted the week of September 27, 2010 on the monitoring wells in this area.
- Leanna stated the Remediation System (French Drain System) in place is to be turned to continuous-flow during the upcoming round of sampling, as a result of unusually high water levels due to recent rain events.
- Gary stated the system was shut down on August 17, 2010, and previous to that the filter bags had been changed fairly often. It is anticipated the system will be turned back on very shortly due to excessive rain.
- Chris and Tara had no additional comments.

10. Installation Restoration Schedule / Exit Strategy

- Ken stated an updated IR schedule / exit strategy was attached to the last set of meeting minutes sent to team members.
- Ken stated the exit strategy has been updated to represent current sites.
- No comments from Chris or Tara regarding this matter.

11. Partnering Training

As this was a teleconference, no partnering training was conducted.

12. Navy Update

- Leanna informed the team she will be moving to Seattle in October 2010 and a new Navy Project Manager will be taking over. Leanna stated she does not know who the new project manager will be yet.

13. Regulator Update

- Chris stated that Hurricane Preparedness is a big issue at TCEQ currently, as a result of Hurricane Ike. So extra precautions need to be taken to secure any Investigation Derived Waste (IDW) if a hurricane is impending.
- For Tier II calculated protective concentration levels (PCLs), the TCEQ decided to continue allowing use of the default lateral dilution factor (LDF).
- Tara had no updates.

14. Parking Lot Issues

- Approval of meeting minutes. More time was required for review of meeting minutes. Larry suggested meeting minutes be reviewed and approval sent via email. Suggestion accepted by team.

15. Agenda for Next Meeting / Reality Check

- The team discussed the planned agenda, date, and leadership for the next Tier I Partnering meeting. The proposed activities are as follows:

Date: January 12, 2010

Location: Etta's Place in Fort Worth, TX

Scribe: Tetra Tech

Team Leader: Ken Grim

Gatekeeper / Timekeeper: Tara Hubner

- I. Welcome/Introductions
- II. Review ground rules
- III. Review/Modify/Approve Agenda
- IV. Review/Approve previous meeting minutes and action items
- V. Tier II Update
- VI. MEC and MC Investigation at NALF Cabaniss
- VII. MC Investigation at NALF Waldron
- VIII. MC Investigation at NASCC
- IX. NASCC IR
- X. Installation Restoration Schedule / Exit Strategy
- XI. Partnering Training
- XII. Navy Update
- XII. Regulator Update
- XIV. Parking Lot Review
- XV. Next meeting date and agenda

Plus/Delta

<u>Plus</u>	<u>Delta</u>	<u>Interesting/Other</u>
<ul style="list-style-type: none"> • Very efficient and focused discussion. • Good technical discussions. • Was a respectful discussion. • SI comment discussion with TCEQ and EPA to meet deadline. 	<ul style="list-style-type: none"> • No dinner with team. • The team was unable to meet in person. 	<ul style="list-style-type: none"> •

**NAS Corpus Christi
Tier I Partnering Team
Action Items ⁽¹⁾**

Date/#	Item	Who	When	Status
20100623A01	Leanna will review the available documents to find the sediment samples that were taken at the outfall point north of Building 8.	Leanna	Before next meeting	
20100623A02	Leanna will work with Rico to gather the documentation on H100, Site 244, FF 217.	Leanna	Before next meeting	
20100623A03	Tetra Tech will review the wells at the site to determine which monitoring wells need to be abandoned and which need to remain.	Ken	Before next meeting	

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

**NAS Corpus Christi
Tier I Partnering Team
Consensus Table⁽¹⁾**

<i>Meeting Date</i>	<i>Issue</i>	<i>Decision</i>	
September 18, 1998	Tier I Partnering Team Organization	Roles and Responsibilities	
		Agenda Format	
		Measures of Success	
		Goals	
		Ground Rules	
		Vision and Mission	
December 2, 1998	Amend Team's Measures of Success	Add "Items are not listed in order of priority" to list of Measures of Success	
	Ground Rules	Discuss potentially troubling issues within the group rather than "blind-siding" a team member with a letter	
	Vision Statement	Meet Regulatory standards to protect human health and the environment in accordance with Texas Risk Reduction Rules with minimal disruption to the mission of the base.	
	Goals	1. All parties work closely together in procuring budget. 2. Meet as needed as a team to discuss issues and make decisions toward goals. 3. Complete Installation Restoration process. 4. Cooperative teamwork. 5. Prioritize. 6. Respectful and candid communication.	
	Mission Statement	Environmental resolution through efficient teamwork using good science and common sense.	
	Corrective Measures Study and Groundwater Monitoring	Install a passive product recovery system (EZY Skimmer or Petro Trap) as an Interim/Stabilization Measure. With the understanding that the measure may or may not become a part of the final remedial measures at the site.	
	Status of other SWMUs at NAS Corpus Christi	SOUTHDIV and EnSafe were involved only in SWMUs 1, 3, and 4 and Building 8, issues regarding other SWMUs at NAS Corpus Christi would be handled between NASCORPC, TCEQ, and USEPA outside of this partnering team.	
	Process for determining need for meetings	Approximately one month prior to the date of a scheduled meeting, the Team Leader will send an e-mail to the team members requesting agenda items and confirmation of the need for the meeting. If there are not enough items to justify a meeting, a conference call will be suggested as an alternative	
	Roles and Responsibilities	Navy's Roles and Responsibilities: In the sixth item, "stakeholders" was replaced with "CNET, EPA, SOUTHDIV, TCEQ, and NASCORPC". USEPA Roles and Responsibilities: In the third bullet item, "-FOSL (FOST-Division Director) has been removed." Tier II Link Roles and Responsibilities: In the third bullet item, "questions or" was replaced with "factual". Team Leader Roles and Responsibilities: Added a fourth bullet: Establishing and sending out agenda. Added a fifth bullet item: Establishing time allocated for each agenda item Scribe Roles and Responsibilities: Deleted third bullet item (moved to Team Leader)	
	Deed Recording	Question for the lawyers of SOUTHDIV and TCEQ to decide.	
	April 28, 1999	Draft-Final Aquifer Characterization Test Report	A formal letter from the TCEQ stating that a formal review of the Draft-Final Aquifer Characterization Test Report was not necessary.

<i>Meeting Date</i>	<i>Issue</i>	<i>Decision</i>
July 13, 1999	Separation of USEPA and TCEQ comments	USEPA will send original comments to the TCEQ. The TCEQ will review them with the USEPA. Final comment to the Navy will include a second attachment containing the USEPA comments with which the TCEQ concurs.
	Streamline deliverable process	EnSafe send deliverables directly to TCEQ with copies to the Navy and USEPA.
October 13, 1999	Team's Training needs Assessment	Scheduled the following training modules, in order: Team Decisions, Listening Skills, Feedback Skills, and Problem Solving Skills.
	TCEQ's comments on the Draft-Final Facility Investigation Report, Building 8, Corpus Christi Army Depot.	Submit each response in the final letter to the TCEQ.
January 19, 2000	Report submitted to the TCEQ	Reports will be delivered over a two-year period
	October 1993 Sampling Event	Data is anomalous and should be eliminated from future consideration.
	USEPA Comments	Copies of USEPA comments to be provided to all partners
	TRRP vs. RRR	Team will use TRRP rules for all future actions, based on confirmation with Mark on 1/27/00
	Natural Attenuation	Natural Attenuation of chlorinated solvents is occurring and the team will follow the screening/evaluation protocol flow chart from "Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater", USEPA
February 8, 2000 (Conference Call)	David Harvey	David Harvey will be a voting member of the NAS Corpus Christi Tier 1 Team as of February 8, 2000.
	Document Submittal	Draft-Final versions of documents will be submitted to the Navy with cc: TCEQ and USEPA.
	Aquifer Classification	The well yield in the upper aquifer as NAS Corpus Christi is less than 150 gallons per day for a 4-inch well, based on Draft-Final Aquifer Characterization Test Report, Building 8, dated February 19, 1996.
March 14, 2000	Grading IR Sites 1, 3, and 4	No grading or alterations will occur at this time on Sites 1, 3, and 4, and institutional controls will apply to sites
	Surface Soil Sampling Plan	Collect the samples on a 200-foot grid, as planned, but initially have only the samples on a 400-foot grid analyzed. If detections warrant, additional samples from the 200-foot grid would be analyzed. Analysis of surface soil samples will include metals, PCBs, and SVOCs. Metals will include arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc.
	Drainage Ditch Groundwater Samples	Groundwater samples collected from along the drainage ditch will not include pesticides analysis.
	Notification	Notification regarding the sediment samples collected off-site is required and that the base would have to be the notifying agency.
May 16-17, 2000	TCEQ Regional Office Member Replacement	The regional office of the TCEQ would no longer have a representative on the Tier I Team.
	Shallow Aquifer Classification	The shallow aquifer at NAS Corpus Christi is a Class 3 Aquifer.
October 25, 2000	Schedule	Schedule set by the team earlier in the year was too ambitious. More realistic expectations need to be reflected in future schedules.
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.

<i>Meeting Date</i>	<i>Issue</i>	<i>Decision</i>
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: 1004D01	Groundwater Sampling Report	Consensus by Team to move to annual sampling on IR sites for Bldg 8.
Oct 20, 2004: 1004D02	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: 0105D01	IWTP SWMUs 334-348	Consensus agreed upon for an extension to 01 Aug 05 for response to TCEQ letter dated 15 Oct 04.
Nov 14, 2007: 1107D01	IR Site SWMU 1, 3, 4	The TCEQ has agreed to the 1100 ug/L concentration as the ^{SW} GW PCL for Chlorobenzene.
Aug 11, 2009: 20090811D01	NA	NA
Dec 01, 2009: 20091201D01	French Drain System at SWMU 1	The French drain remediation system should remain on-line so long as 1) there is water in the interceptor trenches and 2) there are chlorobenzene concentrations greater than the PCLs in the monitoring wells upgradient of the French Drain system.

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

Next 5 Yr Review Date		Not Applicable		SITE-SPECIFIC EXIT STRATEGIES														
Last RIP/RACR Date		05/01/2016		NAS Corpus Christi														
Last NFA Date		01/15/2034		Updated: June 23, 2010														
SITE/SWMU UST/AOC/ PST/MEC (including DOD/NAVY/ SWMUs)	Site Name	Program	Project Status/ Restrictions	Current Phase	APAR or RFI Baseline Date	Draft APAR or RFI Date (Projected or Actual)	Final APAR or RFI Approval Date	RAER or M Workplan Baseline Date	Draft RAER or M Workplan Date (Projected or Actual)	Final RAER or M Approval Date	RAER Baseline Date	Final RAER Date (Projected or Actual)	Draft RACR Baseline Date	Draft RACR Date (Projected or Actual)	Final RACR Approval Date	NEA Baseline	NFA Date (Projected)	
Site 1 / SWMU 1	Defense Property Disposal Office (DPDO) Landfill	RCRA		6 - RIP		05/10/01	A		03/15/05	A		11/12/03 - 1/15/2014	01/21/10	01/15/14		01/15/34	01/15/44	
Site 3 / SWMU 2	Corpus Christi Army Depot (CCAD) Liquid Waste Disposal Area	RCRA		6 - RIP		05/10/01	A		03/15/05	A		11/12/03 - 1/15/2014	01/21/10	01/15/14	07/01/10	01/15/17	01/15/40	
Site 4 / SWMU 4	Aircraft Fire Training Area	RCRA		6 - RIP		05/10/01	A		03/15/05	A		11/12/03 - 1/15/2014	01/21/10	01/15/14	07/01/10	01/15/17	01/15/40	
SWMU 5	Building 8 - Corpus Christi Army Depot	RCRA		6 - RIP		05/10/01	A		03/15/05	A		11/12/03 - 1/15/2014	01/21/10	01/15/14		01/15/34	01/15/44	
SWMU 183	DRMO Storage Area	RCRA																
UXO 1	NALF Cabaniss Skeet & Pistol Range	CERCLA		2 - RI/FS	02/27/08	06/01/10			04/01/11			-						
UXO 2	NALF Waldron Skeet Range	CERCLA		1 - PA/SI	06/30/09				-			-						
UXO 3	NAS CC Ranges	CERCLA		1 - PA/SI	02/01/09	06/01/14			-			-						
UXO 4	NALF Cabaniss Incinerator Disposal Area	CERCLA		2 - RI/FS	02/27/08	06/01/10			04/01/11			-						
LPST 101358	Bldg 305/1153A, Public Works Fuel Station	UST		6 - RIP		01/17/02	A		02/14/06	A								
LPST 91734	Fuel Farm 216	UST		6 - RIP		7/11/1995	A		10/31/95	A		1994 - 2016	1995	06/01/16				
	Fuel Farm 217	UST		1 - PA/SI														
	Fuel Farm 244	UST		1 - PA/SI														

Based on NORM

NFA SITE DOCI

SITE/SWMU UST/AOC/PST MEC	Program	Site Name	NFA Date	NFA Documentation (Dates & Source)	Documents in Admin Record (Y/N)	Comments
Site 2	RCRA	NAS Corpus Christi Landfill	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 5	RCRA	Runway 35 Landfill	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 6	RCRA	Patrol Road East Landfill	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 7	RCRA	Patrol Road West Landfill	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 8	RCRA	Cayo Del Oso Disposal Site	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 9 / SWMU 9	RCRA	North Gate Disposal Area	08/24/05	Initial Assessment Study (Harmon Eng. & Test., 1984) NACIP Program Confirmation Study, Verification Phase (Geraghty & Miller, Inc., 1985) Initial Sampling Results and Future Sampling Recommendations (ERT, 1986) RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Site Investigation Report, North Gate Disposal Area - SWMU 9 (TINUS, 2005) No Further Action Letter (TCEQ, 8/24/2005) Groundwater Compliance Plan Application (TINUS, 2007)	Y	The RCRA Facility Investigation Work plan notes that the TWC noted that the site did not require remediation.
Site 10 / SWMU 10	CERCLA	Radioactive Waste Disposal	04/29/94	Initial Assessment Study (Harmon Engineering & Testing) - February 1984 RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) NFA Letter (TNRCC, 5/26/1993)	Y	Initial Assessment Study - Reportedly, a radioactive survey conducted by Army personnel identified no radiation above background levels in the area; therefore, no confirmation study was recommended.
Site 11	RCRA	Cabaniss Sanitary Landfill	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 12	RCRA	Cabaniss Hurricane Celia Rubble Area	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 13	RCRA	Waldron Rubble Disposal Area	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 14	RCRA	Waldron Rubble Disposal Area	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
Site 15	RCRA	Waldron Rubble Disposal Area	02/01/84	Initial Assessment Study (Harmon Eng. & Test., 1984) RCRA Facility Assessment/VSI Report (A.T. Kearney, Inc., 1988)	Y	
SWMU 3	RCRA	Industrial Sludge Drying Bed - IWTP	09/03/97	NFA Letter (TNRCC, 9/3/1997)	Y	
UST 3	UST	Army Depot Fuel				
UST 7	UST	Public Works Transportation				
UST 8	UST	Perry Place Abandoned Rad				
SWMU 196	CERCLA	Hospital Low-Level Radioactive Storage Bends	9/29/94	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Material was stored on the first floor in Room 1492. Since any potential spilled material could not reasonably reach the soil and groundwater beneath the building, no impact to the soil or groundwater would be expected and no further study is justified
SWMU 244	RCRA	CCAD Plating Shop Floor Drains (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 245	RCRA	CCAD Plating Shop Chrome Tunnel (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 246	RCRA	CCAD Plating Shop Chrome Tunnel Sump (Bldg8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 247	RCRA	CCAD Plating Shop Miscellaneous Tunnel (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 257 - 259, 264, and 265	RCRA	Manhole Drains from Various CCAD Shops (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.

NFA SITE DOCUMENTATION

SITE SWMU UST AOC PST MEC	Program	Site Name	NFA Date	NFA Documentation (Dates & Source)	Documents in Admin Record (Y/N)	Comments
SWMU 274	RCRA	CCAD Storm Sewer (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 277 to 298	RCRA	Bead Blasting Machine Waste Collection Pans	9/29/94	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	RCRA Facility Assessment Evaluation Preliminary Review, Visual Inspection and Sampling Visit noted that it was unregulated at that item.
SWMU 299	RCRA	SSTP Blower Degritter	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	SWMU 299-309. Sanitary Sewer Treatment Plant Units
SWMU 300	RCRA	SSTP Primary Clarifier #1	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 301	RCRA	SSTP Primary Clarifier #2	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 302	RCRA	SSTP Trickling Filter #1	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 303	RCRA	SSTP Trickling Filter #2	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 304	RCRA	SSTP Secondary Clarifier #1	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1995
SWMU 305	RCRA	SSTP Secondary Clarifier #2	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1995
SWMU 306	RCRA	SSTP Sludge Digester #1	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 307	RCRA	SSTP Sludge Digester #2	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1992
SWMU 308	RCRA	SSTP Sludge Digester #3	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 309	RCRA	SSTP Wastewater Chlorination	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1995
SWMU 310 to 315	RCRA	Sanitary Sewer Treatment Plant Sludge Drying Bed	9/29/94	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 316 & 317	RCRA	Industrial Waste Pretreatment Plant Acid Wet Wells (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 318	RCRA	Industrial Waste Pretreatment Plant Neutralization Tank (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 319	RCRA	Industrial Waste Pretreatment Plant Neutralization Tank Manhole (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 320	RCRA	Industrial Waste Pretreatment Plant Chrome Wet Well (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 321 & 322	RCRA	Industrial Waste Pretreatment Plant Chrome Storage Tanks 1 & 2 (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 323	RCRA	Industrial Waste Pretreatment Plant Chrome Treatment Reduction Tank (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 324	RCRA	Industrial Waste Pretreatment Plant Chrome Treatment Precipitation Section (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 325	RCRA	Industrial Waste Pretreatment Plant Chrome Treatment Clarifier (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 326	RCRA	Industrial Waste Pretreatment Plant Sand Filter (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.

NFA SITE DOCUMENTATION

SITE SWMU UST AOC PSI MEC	Program	Site Name	NFA Date	NFA Documentation (Dates & Source)	Documents in Admin Record (Y/N)	Comments
SWMU 327	RCRA	Industrial Waste Pretreatment Plant Wastewater Storage Tank (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 328 & 329	RCRA	Industrial Waste Pretreatment Plant Wastewater Storage Manholes #1 & 2 (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 330	RCRA	Industrial Waste Pretreatment Plant Cyanide Wastewater Storage Tank (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 331	RCRA	Industrial Waste Pretreatment Plant Cyanide Treatment Tank (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 332	RCRA	Industrial Waste Pretreatment Plant Cyanide Clarifier (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 333	RCRA	Industrial Waste Pretreatment Plant Cyanide Clarifier	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 333A	RCRA	Industrial Waste Pretreatment Plant Cyanide Water Storage Tank (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 333B	RCRA	Industrial Waste Pretreatment Plant Sludge Storage Area (Bldg 8)	N/A	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Identified for corrective action in the Compliance Plan. Future corrective action will be addressed under SWMU 5 - Building 8.
SWMU 334	RCRA	Industrial Waste Treatment Plant Lift Section 1	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	The Industrial Wastewater Treatment Plant (SWMUs 334-348) treats the process wastewater discharged from CCAD maintenance activities throughout the base.
SWMU 335	RCRA	Industrial Waste Treatment Plant Lift Section 2	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 336	RCRA	Industrial Waste Treatment Plant Wastewater Spill Containment Tank	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 337	RCRA	Industrial Waste Treatment Plant Batch Phenol Destruction Unit	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1978
SWMU 338	RCRA	Industrial Waste Treatment Plant Batch Cyanide Destruction Unit	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1978
SWMU 339	RCRA	Industrial Waste Treatment Plant Aerated Grit Chamber	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 340	RCRA	Industrial Waste Treatment Plant Grit Storage in Drums	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1978
SWMU 341	RCRA	Industrial Waste Treatment Plant Equalization Tank	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 342	RCRA	Industrial Waste Treatment Plant Wastewater Storage Tank	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 343	RCRA	Industrial Waste Treatment Plant Contact Chamber	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 344	RCRA	Industrial Waste Treatment Plant Rereration Chamber	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 345	RCRA	Industrial Waste Treatment Plant Clarifier	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 346	RCRA	Chlorine Contact Chamber	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 347	RCRA	Aerobic Digester	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	
SWMU 348	RCRA	Oil Concentrator	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Removed 1982
SWMU 348A	RCRA	Oil Storage Area	NA	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) -October 2007	Y	Oil skimmed from the Oil Concentrator Removed 1982

NFA SITE DOCUMENTATION

SITE SWMU UST AOC PST MEC	Program	Site Name	NFA Date	NFA Documentation (Dates & Source)	Documents in Admin Record (Y/N)	Comments
SWMU 349 to 354	RCRA	Sludge Drying Beds 1 - 6	4/6/95	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) - October 2007	Y	No Further Action Closure Letter
SWMU 355	RCRA	Low Level Radioactive Waste Storage Area	9/29/84	RCRA Facility Assessment / Visual Inspection and Sampling Visit (A.T. Kearney, Inc., 1988) Groundwater Compliance Plan Application (TINUS) - October 2007	Y	No Further Action Closure Letter

LEGEND

AOC	Area of Concern
APAR	Affected Property Assessment Report
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
FS	Feasibility Study
LUC	Land Use Controls
LPST	Leaking Petroleum Storage Tank
MEC	Munitions or Explosives of Concern
NFA	No Further Action
OPS	Operating Properly and Successfully
PA	Preliminary Assessment
PST	Petroleum Storage Tank
RACR	Response Action Completion Report
RAER	Response Action Effectiveness Report
RAP	Response Action Plan
RCRA	Resource Conservation Recovery Act
RDR	Release Determination Report
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
CMS	Corrective Measures Study
CMI	Corrective Measures Implementation (Workplan or Report)
RIP	Remedy In Place
SI	Site Investigation
SWMU	Solid Waste Management Unit
UST	Underground Storage Tank
UXO	Unexploded Ordnance