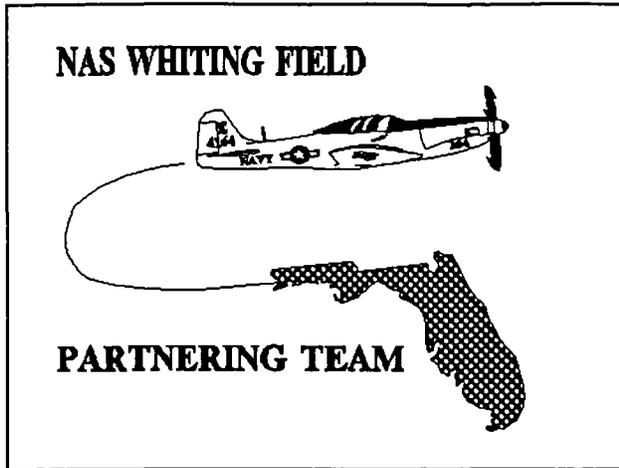


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NAS WHITING FIELD
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MINUTES FROM PARTNERING TEAM MEETING HELD 7 MARCH 1997 NAS WHITING
FIELD
3/7/1997
NAS WHITING FIELD



MEMORANDUM

TO: Partnering Group
FROM: Gerry Walker, ABB-ES
SUBJECT: Proposed Investigations Of
Base West of Clear Creek
DATE: March 7, 1997

This memorandum provides an update of future groundwater explorations proposed as part of the NAS Whiting Field Remedial Investigation. Additional monitoring well installation and sampling are proposed for three areas:

- off base east of Site 13,
- off base west of Clear Creek, and
- on base north of Site 16.

Each of the investigation areas are described individually below. Following the individual discussions the investigation methods common to all investigation areas will be detailed.

Groundwater Investigation East of Site 13. The purpose of the off base investigation of groundwater east of Site 13 is to determine groundwater flow patterns east of the facility toward Big Coldwater Creek. The investigation will also include the collection of groundwater samples to investigate potential groundwater contamination. Three monitoring wells will be installed at the separate locations shown on Figure 1. All of the monitoring well will be completed to the top of the water table at the approximate depths indicated on Table 1.

Groundwater Investigation West of Clear Creek. The purpose of the off base investigation west of Clear Creek is to assess groundwater flow patterns from the highland areas to the Clear Creek flood plain and investigate potential groundwater contamination migrating from the facility under Clear Creek on to adjacent properties. Although Clear Creek is believed to be a groundwater divide and that the upper sand and gravel aquifer discharges to the creek and does not pass under it, the possibility exists that based on regional groundwater flow a portion of the aquifer may be unaffected by the creek.

The additional groundwater investigation will include the installation of 11 monitoring wells at the locations shown on the attached Figure 2. Nine of the monitoring wells will be installed as three well "monitoring well nests" grouped at a single location. Each of the wells in the monitoring well nest will be completed to a different depth. The purpose of the three well nests are to investigate different depth zones at a single location for the presence of contaminated groundwater the proposed completions depths for the monitoring wells are presented in Table 1.

The two remaining wells will be completed at single well locations. The primary purpose of these monitoring wells are to provide measurement stations to record water level elevations. The groundwater elevations will be used to determine groundwater flow patterns in the area. However groundwater samples will be recovered from the monitoring wells to determine if any potential contaminants are present in the groundwater.

Groundwater Investigation Area North of Site 16. The on base investigation of groundwater north of Site 16 will be conducted to confirm the extent of the groundwater contamination in the northern direction. Additional monitoring wells will be installed on the slope are between the upland plateau and the Creek flood plain that has not been previously investigated. A single "monitoring well nest" consisting of three monitoring wells completed to different depths will be installed at the location shown on Figure 2. The proposed construction details for the monitoring wells are shown on Table 1.

Investigation Techniques Common to All Investigations. All of the monitoring wells will be installed using Hollow stem auger or mud rotary techniques. The monitoring wells will be constructed of 2-inch diameter PVC and installed following USEPA Region IV Standard Operating Procedures, May 1996.

In conjunction with the monitoring well installation at nested well sites, split spoon subsurface soil samples will be collected at five foot intervals from one monitoring well in each well nest. The subsurface soil samples will be used to characterize the subsurface lithology and identify any potential clay confining units.

Following the installation and development of the monitoring wells, a groundwater sample will be collected from each well using low flow sampling methodology and analyzed for Target Compound List (TCL) VOCs, TCL Semivolatile Organic Compounds (SVOCs), TCL Pesticides and PCBs, and Target Analyte List (TAL) Inorganic analytes. In addition depth to groundwater measurements will be recorded and converted to groundwater elevation value during the periodic water level elevation surveys at the facility.

Investigate derived waste (IDW) management will remain consistent with the IDW management plan developed for the Phase II-A RI.

**Table 1
Monitoring Well Summary**

Proposed Groundwater Investigation
at NAS Whiting Field
Milton, Florida

Groundwater Investigation Area	Groundwater Depth Zone	Number of Monitoring Wells	Estimated Surface Casing Depth	Estimated Monitoring Well Depths	Estimated Screened Intervals
Off Base - East of Site 13	shallow	3	NA	85	75 to 85
Off Base - West of Clear Creek	shallow	3	NA	15	5 to 15
	intermediate	3	NA	45	35 to 45
	deep	3	NA	75	65 to 75
	shallow	2	NA	75	65 to 75
On Base - North of Site 16	shallow	1	NA	70	55 to 70
	intermediate	1	NA	100	90 to 100
	deep	1	NA	140	130 to 140

All depths are recorded in feet below land surface.
NA = surface casing is not anticipated to be used,

NAS Whiting Field Site Prioritization

SITE #	Invest. needed	Remed needed	Priority		NOTES
			Invest.	Remed	
1	o	o	0	0	\$ thru ROD (NFA?)
2	o	o	0	0	\$ thru ROD (NFA?)
3	x	x	2	5	RI/FS 98JUL
4	x	x	2	5	RI/FS 98JUL
5	o	o	0	0	GW TO 33
6	o	o	0	0	GW TO 33
7	x?	x?	1	1	GW TO 30 (RI 97NOV)
8	o	o	0	0	GONE '94 NFAP
9	o	o	0	0	\$ thru ROD (NFA?)
10	o	x	0	6	\$ thru ROD (MOP?)
11	o	x	0	7	\$ thru ROD (MOP?)
12	o	o	0	0	\$ thru ROD (NFA?)
13	X	x	0	2	\$ thru ROD (GW Remediation needed?)
14	o	x	0	8	\$ thru ROD (NFAMOP?)
15	o	x	0	9	\$ thru ROD (Remediation?)
16	o	x	0	11	\$ thru ROD (Remediation?)
17	o	x	0	4	
18	o	x	0	4	
29	x	x	5	16	
30	X x	x	1	1	GW INV FUNDED/SOILS? Rem-GW & Soil(RI 97NOV)
31a	o	x	0	3	\$ thru ROD (DIG&HAUL?)
31b	o	o	0	0	\$ thru ROD (NFA?)
31c	o	x	0	3	\$ thru ROD (DIG&HAUL?)
31d	o	o	0	0	\$ thru ROD (NFA?)
31e	o	o	0	0	\$ thru ROD (NFA?)
31f	o	o	0	0	\$ thru ROD (NFA?)
32	x	x	2	5	FY97 \$ funds INVESTIGATION (RI/FS 98JUL)
33	x	x	1	1	RI 97NOV
35	x	x	4	12	
36	x	x	6	13	
37	x	x	7	14	
38	x	x	8	15	
39	x	x	3	10	RI/FS (99-00)

NOTES:

\$ thru ROD = Funding in place thru the ROD

X = activity already funded (Site 30 only GW funded)

x = activity needs funding

o = activity not required

