

TRANSMITTAL

Date: 9 October 2000

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Subj: Draft Work Plan, Revision No. 1 (IT Corporation, Revised October 2000)
National Aeronautics and Space Administration (NASA)
Crows Landing Flight Facility

Transmitted for your review is the draft work plan for the additional field activities at NASA Crows Landing Flight Facility. The work plan for the soil vapor extraction (SVE) optimization activities at Underground Storage Tank (UST) Cluster 1, originally completed in July 2000, has been expanded to include seven (7) additional projects, and Appendix H contains the seven work plan attachments that describe the projects.

We are conducting the Navy review concurrently with the Base Realignment and Closure Cleanup Team review in order to expedite the beginning of fieldwork for the new projects. We would like to request your comments by 18 October 2000, if possible. We would like to begin work on the new projects in late October or early November 2000.

The following paragraphs describe the seven (7) work plan attachments and proposed projects.

Attachment 1 - Abandonment and closure of wells

Attachment 1 addresses the videographic surveying of two deep wells (the former water supply well at Building 151 and the former fire water supply well north of UST Cluster 2), the demolition of the pump house for the well near UST Cluster 2, and the closure of the two deep wells. The two deep wells are located near known groundwater contaminant plumes (UST Cluster 2 plume and the Administration Area plume) and the closure of the wells will eliminate potential conduits that could convey contaminants to the deep aquifer. We plan to close the wells in accordance with Stanislaus County procedures.

Attachment 2 - Geophysical surveying at Site 11

Attachment 2 describes the surveying activities that will be used to delineate the boundaries of former disposal pits at Site 11. An unexploded ordnance (UXO) survey will be conducted prior to the geophysical surveys for worker protection purposes. Geophysical surveying using electromagnetic surveying instruments will be conducted over most of the site, and ground penetrating radar surveys may be conducted at selected areas.

Attachment 3 - Aquifer testing at UST Cluster 1

Attachment 3 describes the plans for evaluating aquifer characteristics at UST Cluster 1 and for conducting a long-term (1-2 month duration) groundwater extraction pilot test to evaluate the effectiveness of groundwater extraction as a remedial technique and to remove petroleum hydrocarbons from the area with the highest concentrations.

Attachment 4 - Surveying of sewer pipelines

Attachment 4 describes the plans for conducting videographic surveys of sewer pipelines in order to verify the conditions of the pipelines and for conducting geophysical surveys in order to ascertain the locations of structures that were located within or near the former sewage plants. Trenching may be utilized to confirm the location(s) of the original sewer pipeline.

Attachment 5 - SVE testing at UST Cluster 2

Attachment 5 describes the proposed SVE testing, evaluation of test data including the evaluation of radius of influence measurements and soil vapor rebound effects, and confirmation soil sampling activities at UST Cluster 2.

Attachment 6 - Groundwater sampling

Attachment 6 identifies the twenty-two (22) wells proposed for sampling for metals (including hexavalent chromium), VOCs, and petroleum hydrocarbons in order to verify groundwater conditions. Wells at UST Cluster 1, UST Cluster 2, UST Site 109, UST Site 117, Site 11, Site 17, and the three background wells are proposed for sampling.

Attachment 7 - Testing at UST Site 109

Attachment 7 describes proposed verification soil sampling, SVE testing, and the evaluation of test data including baseline soil vapor concentrations and radius of influence measurements at UST 109.

Please do not hesitate to call me at (619) 532-0783 if you have questions pertaining to the revised work plan.

Thank you very much.

Attachment:

Draft Work Plan, Revision No. 1 (IT, October 2000)

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Project File (Crows Landing)

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ENCLOSURE

WORK PLAN
SOIL VAPOR EXTRACTION OPTIMIZATION FOR THE
REMEDICATION OF UST CLUSTER 1 AND
SITE VERIFICATION ACTIVITIES AT VARIOUS SITES
REVISION 1

DATED 01 OCTOBER 2000

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