

HAFB 06



ENGINEERING, SCIENCE AND CONSTRUCTION

445 Union Blvd, Suite 129, Lakewood, CO 80228
303-815-1762 main 303-815-1763 fax www.bhate.com

RESPONSIVENESS - INTEGRITY - TEAMWORK

October 23, 2006

New Mexico Environment Department
Hazardous Waste Bureau
Permits Management Program
5500 San Antonio Drive NE
Albuquerque, New Mexico 87109

Attention: Mr. Dave Strasser

Subject: Submittal of DP-63 VCM Work Plan Addendum Memorandum, Holloman
AFB, NM

Dear Mr. Strasser,

HWB-HAFB-06-001

Enclosed are three copies of the following:

- An Addendum Memorandum for Additional Investigation Requirements at ERP Site DP-63 (AOC-3) the Ammunition Disposal Pit, Holloman AFB, New Mexico.

Also, a CD containing a PDF regarding this site is enclosed. The memorandum describes the relocation of several soil borings and monitoring wells based upon the final dimensions of the excavations performed to remove munitions of concern at the site. These excavations are much smaller than anticipated and therefore, the locations of the borings in the approved work plan require relocation closer to the actual excavated areas.

If you have any questions, please feel free to call Chuck Schick at 505-869-3306 or me at 303-815-1762.

Sincerely,
Bhate Environmental Associates, Inc.

Frank Gardner, PG
Program Manager

cc w/ encl: G. Fish, HAFB



MEMORANDUM

ADDENDUM FOR ADDITIONAL INVESTIGATION REQUIREMENTS WORK PLAN ERP SITE DP-63 (AOC-3) Ammunitions Disposal Pit HOLLOMAN AFB, NEW MEXICO

Date: October 23, 2006

To: New Mexico Environment Department Hazardous Waste Bureau
(NMED -HWB)
Mr. Will Moats
Mr. Cornelius Amindyas
Mr. Dave Strasser

From: Bhate Associates, Inc.
Chuck Schick
Frank Gardner

Subject: MODIFICATION TO SEPTEMBER 2006 DP-63 VOLUNTARY
CORRECTIVE MEASURES WORK PLAN OF SEPTEMBER 2006.

The final and latest version of the Ammunition Disposal Pit (ERP site DP-63) VCM Work Plan was submitted to NMED in September 2006. The existing plan is based upon the August 2006 NMED Notice of conditional approval. The approved plan was designed to address additional characterization for three UXO excavation pits. The work plan addressed the worst case scenario in which the entire geophysical grid area at each pit might require excavation.

The final round of excavation, UXO screening and removal of PCS was performed in September 2006. These final excavations have proved to be significantly smaller than those anticipated by the approved work plan. The pits are so small that previous soil borings still provide sufficient lateral delineation. Since the locations and the number of borings and monitoring wells in the

approved plan are based upon much larger excavations, modifications to the plan are necessary to reflect the true conditions. The proposed changes include:

1. Moving these borings/monitoring wells to the center of each pit to provide vertical delineation.
2. Submit more soil samples (3 each) from each boring for laboratory analysis to provide better vertical delineation.
3. Converting more borings to groundwater monitoring wells (a total of 5 instead of 3).

A summary of the existing work plan and the proposed modifications are presented below.

ORIGINAL SCOPE

The objectives of the original work plan scope were to collect and analyze additional subsurface soil and groundwater samples from the East, West and North Disposal Pit areas to completely delineate the impacts of past site practices.

The original sampling locations are illustrated in the VCM work plan Figures 1 and 2 (**Attachments 1 and 2**). The original scope called for the placement of 9 soil borings to a depth of approximately 48 feet (penetrating the groundwater table). Soil samples would be continuously collected and screened for VOCs using a PID. Based upon these headspace readings (and other parameters), two samples from each boring were to be collected for laboratory analysis. The soil samples were to be analyzed for VOCs, SVOCs, TAL metals, explosives and TPH. Further, three of the borings were to be completed with groundwater monitoring wells. Samples from these wells and 5 existing wells were to be sampled and analyzed for VOCs, SVOCs, TAL metals, explosives, TPH, and TDS. In addition, the appropriate number of duplicates and split samples would be collected for QA/QC purposes.

REVISED SOW

The DP-63 munitions and explosives of concern excavations were completed in September 2006. The boundaries of the North, East and West disposal pits were significantly smaller than anticipated in the DP-63 VCM work Plan. A revised scope of work has been developed to reflect the actual pit boundaries. The proposed scope of work includes drilling 50 foot bgs boreholes (to the groundwater table) through the center of each of the four defined disposal pits (two small pits in the North, the East pit and the West pit). The surveyed outlines of the actual pits and the new boring locations are illustrated on the revised maps of the North, West and East pits. These maps are presented as **Attachments 3**,

ATTACHMENT #2



Proposed Monitoring Well Locations

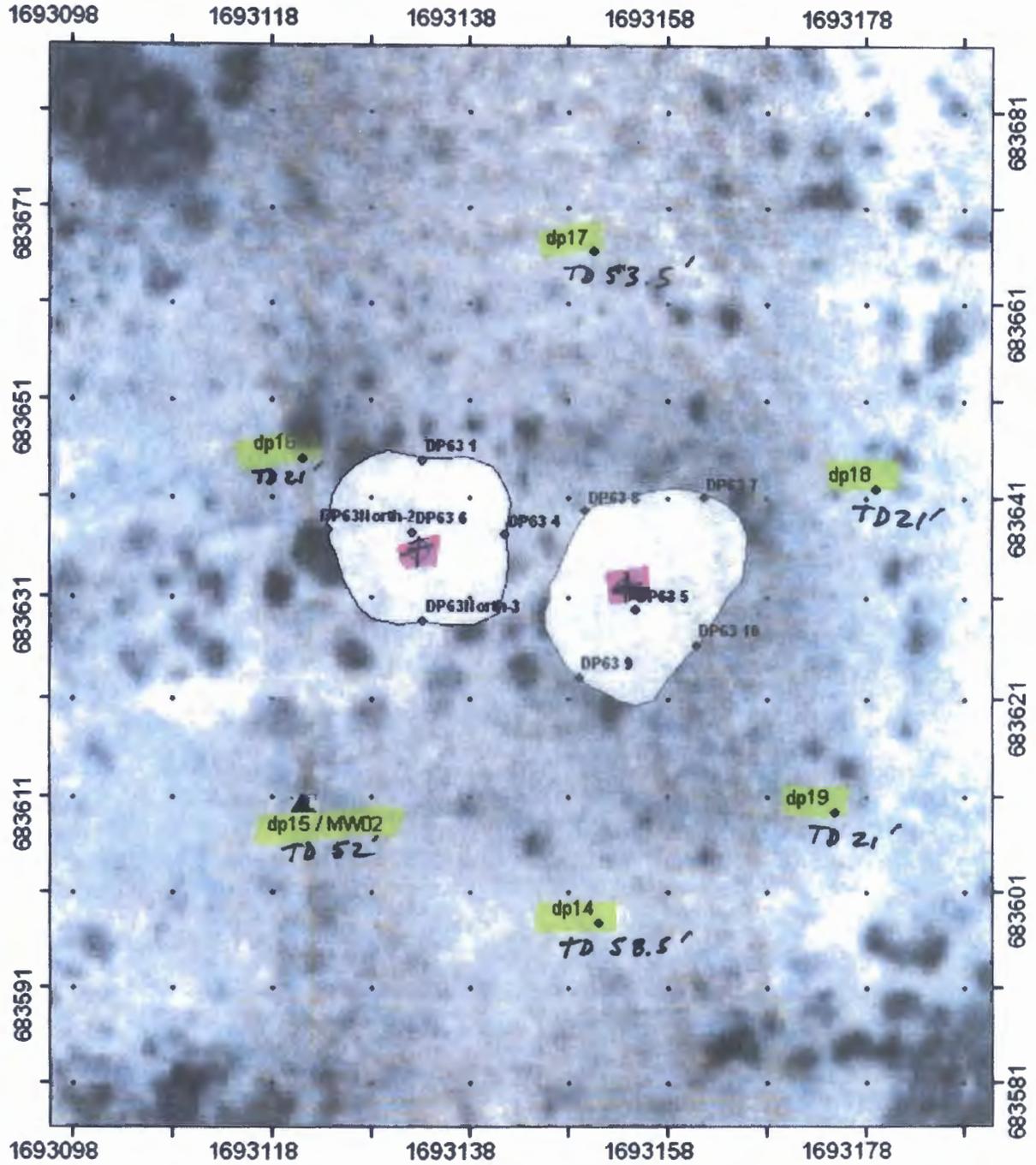
PROJECT NO	SCALE	DATE	DRAWN BY
9050044	Shown	2/3/06	CTI
			DRAWING NO
			fig3

Disposal Pit 63 (DP-63)
Voluntary Corrective Measures Work Plan
Holloman Air Force Base, New Mexico

Figure 3

ATTACHMENT # 3

DP-63 North Pit



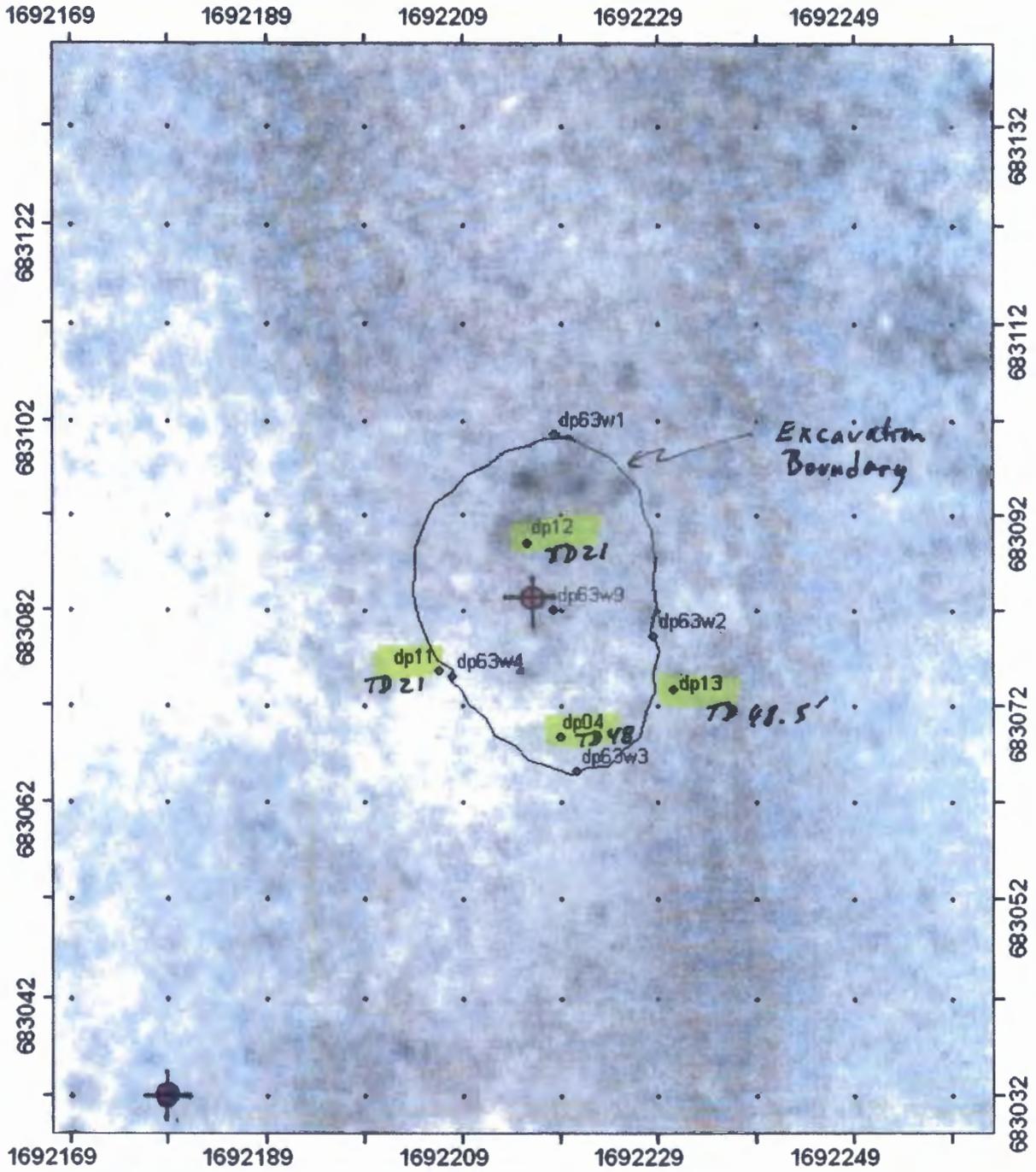
-  Excavated Area
-  Sample Points
-  Old Soil Borings
-  Wells



-  Previous investigation borehole and MW loc
-  Proposed bore hole/mw location

ATTACHMENT #4

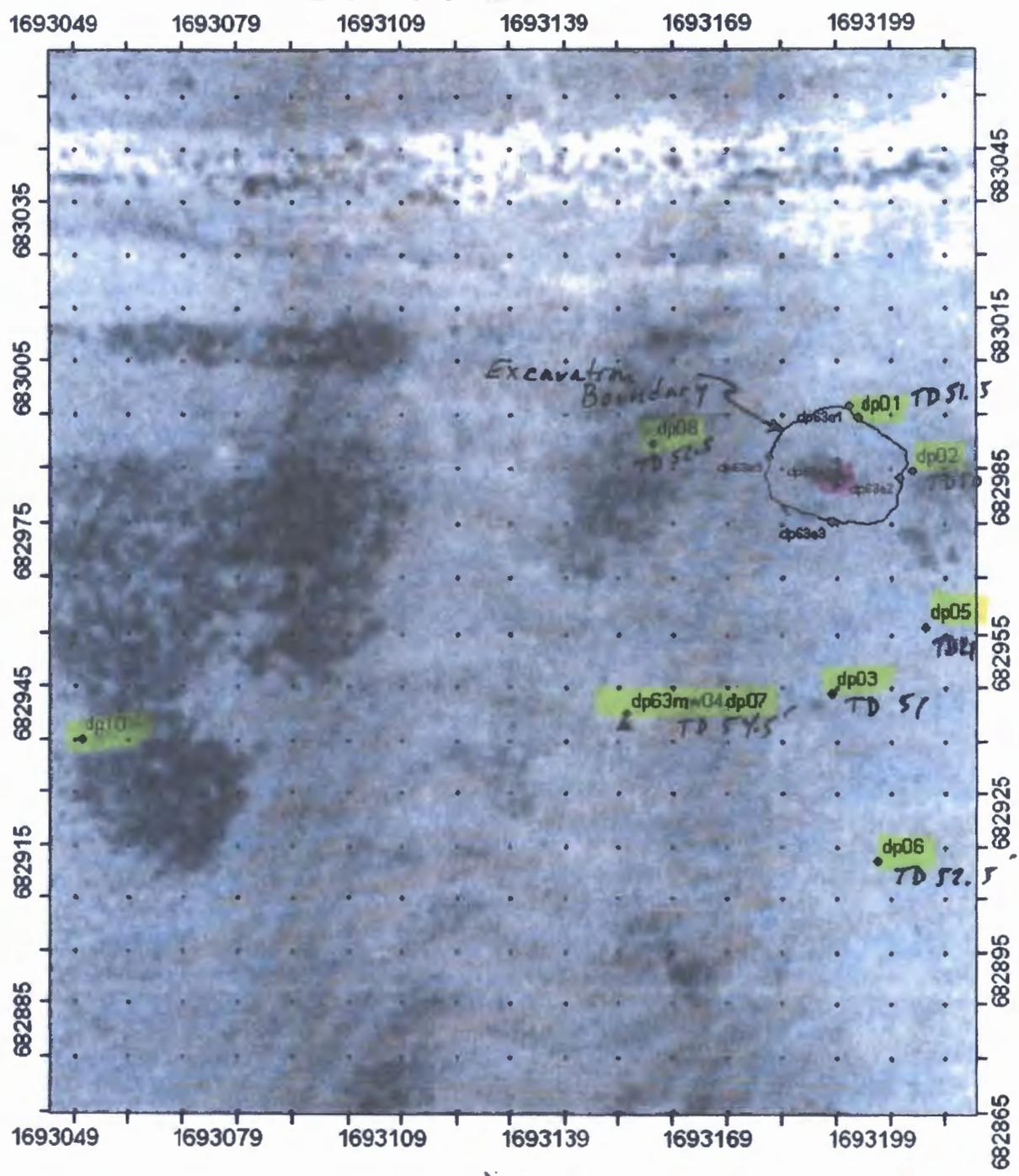
DP-63 West Pit



-  Excavated Area
-  Sample Points
-  Old Soil Borings
-  Wells
-  Previous investigation bore hole locations
-  Proposed bore hole/ Mon. to my ~~all~~ Locations (revised)

ATTACHMENT

DP-63 East Pit



-  Excavated Area
-  Sample Points
-  Old Soil Borings
-  Wells



-  Previous investigation borehole and MW loc.
-  Proposed borehole/MW location (revised)