ARIZONA DEPARTMENT
OF
ENVIRONMENTAL QUALITY

Douglas A. Ducey
Governor

Henry R. Darwin
Director

via e-mail

June 22, 2015
FPU15-275

Ms. Catherine Jerrard
AFCEC/CIBW
706 Hangar Road
Rome, NY 13441

RE: WAFB – ADEQ Comments – *Progress Report June 9-15 dated June 17, 2015*; *Steam Enhanced Extraction at the Former Williams AFB, ST012 Site, Mesa, AZ*; prepared by TERRATHERM

Dear Ms. Jerrard:

Arizona Department of Environmental Quality (ADEQ) Federal Projects Unit (FPU) and ADEQ contractors UXO Pro, Inc. and Praxis Environmental Technologies reviewed the above-referenced document. ADEQ appreciates your assistance in clarifying items for our contractor. Questions are provided below.

System and Report Clarification Requests

Clarification Request 1 - Mass Removal

1A) Why did the cumulative mass estimates for vapor phase increase?
On June 1, 2015, the Thermal Accelerator Inlet Mass Load (based on Lab) Cumulative was just over 100,000 lbs on Figure 3. On June 15, 2015, Figure 3 shows this cumulative mass as ~350,000 lbs. Values reported for earlier dates also appear to be increased in Figure 3.

1B) Was the laboratory data revised?
Similarly, the reported cumulative mass in the vapor phase based on the PID readings was also doubled to over 400,000 pounds. The cumulative mass removed is based on the vapor extraction data multiplied by the concentration data. The vapor extraction rates shown in Figure 1 appear to be unchanged. The PID readings in Figure 2 for the accelerator influent appear to be unchanged.

Clarification Request 2 - Daily Mass Removed

Why are historical PID and laboratory-based data increased from previous reports back to February 2015?
Figures 1 and 2 do not indicate any revision to the vapor extraction rate or PID readings used to calculate the daily mass removed.

Clarification Request 3 - Perimeter Water Levels

2A) Does the recent appearance of NAPL at W30 indicate a lack of hydraulic containment to the west of the LSZ TTZ?

2B) Does the persistence of NAPL after bailing in W11 and W37 indicate an increasing accumulation of mobile NAPL near these wells?

Clarifying Comment4 - Estimated Formation Water Temperature

The addition of Table 4 is very informative.

Thank you for your assistance. Should you have any questions regarding this correspondence, please contact me by phone at (602) 771-4121 or e-mail miller.wayne@azdeq.gov.

Sincerely,

Wayne Miller
ADEQ Project Manager
Federal Projects Unit
Remedial Projects Section
Waste Programs Division

cc:	Catherine Jerrard, USAF AFCEC/CIBW	catherine.jerrard@us.af.mil
	Carolyn d'Almeida, U.S. EPA	dAlmeida.Carolyn@epamail.epa.gov
	Terie Glaspey, AFCEC/CIBW	terie.glaspey@us.af.mil
	Steve Willis, UXO Pro, Inc.	steve@uxopro.com
	Patrick Shinabery, ADEQ	Shinabery.patrick@azdeq.gov
	ADEQ Reading and Project File	