

May 23, 2006

Via e-mail
Mr. Jesse Perez
HQ/AFCEE
3300 Sidney Brooks
Brooks City Base, TX 78235-5112

Subject: Task Order (TO) 0006 (TO0006) TIM #3 Meeting Minutes,
Construction of Outfall Reuse, Aboveground Storage Tank Relocation, & Interim
Remedial Actions at SWMU B-3 and AOC-65, Camp Stanley Storage Activity
(CSSA), Boerne, Texas
Texas Contract FA8903-04-D-8675, TO0006
Parsons Job Number 744223.01000

Dear Mr. Perez:

Attached please find minutes for the TO0006 TIM #3 meeting held on Wednesday, April 19, 2006 at CSSA. The topics discussed included the current status of SWMU B-3 items to be completed under TO0006, CSSA's Waste Management Plan (WMP), the upcoming CSSA public meeting, and future CSSA work items. A copy of the presentations used for the meeting and the meeting agenda are attached to the meeting notes.

Please let me know if you have any questions or comments.

Sincerely,



Brian Vanderglas
Project Manager

Attachments

xc: Glaré Sanchez, CSSA
Abigail Power, TCEQ
Sonny Rayos, TCEQ
Greg Lyssy, EPA
Brian Siegfried, AFCEE
Kimberly Vaughn, Parsons
Eric North, Parsons
Julie Burdey, Parsons
744223 Project File



**TECHNICAL INTERCHANGE MEETING NO. 3
MEETING MINUTES
CONSTRUCT OF OUTFALL REUSE SYSTEM,
ABOVEGROUND STORAGE TANK (AST) RELOCATION,
AND INTERIM REMEDIAL ACTIONS AT AOC-65 AND SWMU B-3
CAMP STANLEY STORAGE ACTIVITY, BOERNE, TEXAS
FA8903-04-D-8675/DELIVERY ORDER 0006
PARSONS 744223.01000**

Date: Wednesday, 19 April 2006
 Time: 9:30 A.M. - 12:00 P.M.
 Place: Camp Stanley Storage Activity (CSSA)
 Subject: SWMU B-3 Bioreactor Work, TO0006 Status

Attendees:

| Attendee | Organization | Phone |
|------------------|---|----------------|
| Glaré Sanchez | CSSA | (210) 698-5208 |
| Jeff Aston | U.S. Army Corps of Engineers | (210) 336-1270 |
| Greg Lyssy | U.S. Environmental Protection Agency (USEPA) | (214) 665-8317 |
| Brian Siegfried | Air Force Center for Environmental Excellence (AFCEE) | (210) 536-5208 |
| Abigail Power | Texas Commission on Environmental Quality (TCEQ) | (210) 403-4064 |
| Sonny Rayos | TCEQ | (512) 239-2371 |
| Brian Vanderglas | Parsons | (512) 719-6059 |
| Julie Burdey | Parsons | (512) 719-6062 |
| Ken Rice | Parsons | (512) 719-6050 |
| Kimberly Vaughn | Parsons | (512) 719-6816 |
| Eric North | Parsons | (512) 719-6054 |

Minutes prepared by Eric North, Julie Burdey, and Brian Vanderglas, Parsons.

The meeting was directed by Julie Burdey and led jointly by Julie Burdey (WMP, future work), Kimberly Vaughn (public meeting), and Brian Vanderglas (TO0006 B-3 items). The meeting discussions were conducted per the meeting agenda attached to these minutes. All attendees were present for all portions of the meeting.

The goals of the meeting were to:

- Discuss the unexploded ordnance (UXO) finding during initial excavation at Solid Waste Management Unit (SWMU) B-3 and how it will affect work at the site;
- Obtain TCEQ and EPA concurrence on the proposed course of action at SWMU B-3;
- Finalize comments on the WMP; and
- Obtain TCEQ and EPA input on future projects and public meeting.

INTRODUCTION AND B-3 SITE WALK

All meeting attendees met in the CSSA Building 98 conference room and Julie Burdey introduced the meeting and meeting agenda. Slides 1 through 3 were presented.

A short safety briefing was held and then all of the meeting attendees went to the SWMU B-3 site so that they could view the site layout, topography, and material excavated prior to work stoppage due to the UXO finding. The vehicles drove past CS-16 wells and turned south to travel past the injection well and south through SWMU B-3. The vehicles stopped at the area where a UXO item was found during initial excavation activities on April 5, 2006, at the southwest corner of the trenches at B-3. The site layout and description of planned excavation and bioreactor installation activities were discussed. Figure 1 (see Attachment), showing previous soils results for B-3, was handed out and plans for the removal action were discussed.

After the SWMU B-3 visit, meeting attendees visited the bioreactor injection well, where Brian Vanderglas provided a description of the bioreactor injection test and preliminary tracer test results. The group then returned to the Building 98 conference room.

SWMU B-3 STATUS DISCUSSIONS

Julie Burdey reiterated the meeting purpose items listed on Slide 3 and explained to Texas Commission on Environmental Quality (TCEQ) representatives Abigail Power and Sonny Rayos that Parsons and CSSA would like to obtain TCEQ's approval on CSSA's WMP and the plan for the future public meeting.

Brian Vanderglas described the bioreactor installation plan (as shown in Slides 4 through 8) and discussed the impact that finding a piece of UXO during excavation has had on the bioreactor installation. Not only did the UXO finding cause a work suspension, but it has impacted the budget and sampling routine.

Brian Vanderglas discussed the iodide tracer test preliminary results (as presented in Slide 9) and schedule for additional B-3 related activities. Due to UXO technician availability and contract modification requirements, the B-3 work is anticipated to resume May 1st.

Brian Siegfried raised the issue of awarding the additional costs associated with addressing the ordnance issues at B-3. Mr. Vanderglas replied that Parsons' contract administrator still needs to submit the work stoppage notification letter to AFCEE. Mr. Siegfried said he could get the modification awarded for TO0006 relatively quickly after receipt of Parsons proposal for the planned modified scope of work, but Glaré Sanchez needs to complete the Military Interdepartmental Purchase Request (MIPR). Ms. Sanchez said she is comfortable with Parsons initial cost estimates and she will complete the MIPR right away.

WMP

Ms. Burdey stated that Parsons and CSSA had received and reviewed Mr. Rayos' comments to the WMP and the comments will be incorporated into the WMP.

A general discussion of Mr. Rayos' comments ensued. CSSA does not have any objections to those comments. It was agreed that CSSA should finalize the general WMP per Mr. Rayos' comments, then add site-specific addenda as necessary, such as the B-3 addendum that needs to address ordnance-related issues. Ken Rice clarified that this is the remediation WMP that is

being discussed and this document is a separate document from CSSA's operations WMP. For all environmental remediation operations at CSSA, it was agreed that the remediation WMP will be followed unless concerns rise to a high enough level based on conditions encountered or deviations are desired. Any site specific deviations or variations to the WMP will be included in a site or task specific WMP addendum to address the particular concerns or issues.

At SWMU B-3, Ken Rice explained that toxicity characteristic leaching procedure (TCLP) semivolatile organic compound (SVOC) analysis will be added to the sampling routine to address waste characterization of excavated materials from waste stockpiles that contained UXO items. All waste characterization samples will be analyzed for TCLP volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and TCLP metals, while at least 10% of samples will be tested for TCLP SVOCs and total explosives (or 100% of samples where UXO items were encountered). Mr. Rice also explained that the sampling frequency will also be increased from 1 sample per 500 cubic yards (CY) of material to 1 sample per 200 CY. The sampling frequency has been increased to address the variability in waste materials observed during the initial excavations at SWMU B-3. The current plan is to excavate the trenches, lay out the excavated material and systematically inspect it for ordnance, and then possibly sift the soils, depending on ordnance findings.

Sonny Rayos expressed concern that the TCLP SVOC analysis would not cover all of the explosives constituents that are ordnance-related contaminants of concern (COCs) at the site (RDX, TNT, MDX, etc.). Mr. Rice responded that he would check to make sure that these explosives constituents are included in the TCLP SVOC analysis. If they are not included, total explosives analysis will be included in the sampling routine to cover the aforementioned COCs. *(Note: Following the meeting, it was determined that explosives analyses by Method SW-8330 would be necessary.)*

A discussion occurred about the number of explosives analyses that will need to be conducted during the bioreactor excavation activities. If no additional UXO items are encountered, Mr. Rayos questioned whether it is necessary to analyze all characterization samples for explosives. It was agreed that a minimum of either 10% of the samples or ten samples, whichever is greater, will be analyzed for explosives. All excavated soils that ordnance items are encountered within will be sampled for explosives.

Mr. Rayos questioned whether all samples will be analyzed by a TCLP method. Mr. Rice responded that CSSA plans to analyze all samples using the TCLP method for VOCs, SVOCs, and metals.

TCEQ representatives, Mr. Rayos and Abigail Power, and Environmental Protection Agency (EPA) representative Greg Lyssy agreed on the sampling routine to be implemented for the B-3 bioreactor excavation. Based on this agreement, and because SWMU B-3 excavation is scheduled to resume on May 1, Mr. Lyssy indicated that work could continue at SWMU B-3 without an approved WMP, with the understanding that the WMP will be completed and formal approval provided in the very near future.

After much regulator discussion on groundwater sampling for explosives at B-3, the consensus was that although explosives should not be added to the groundwater COC list for routine sampling, there would be a one-time sampling event at B-3.

PUBLIC MEETING

Kimberly Vaughn led a discussion about how CSSA is updating the Community Relations Plan and planning another public meeting to present the activities and status of CSSA's environmental program. CSSA has learned of a new housing subdivision to be constructed adjacent to the post and would like to ensure that these new residents are adequately informed of CSSA's environmental concerns.

The public meetings are tentatively planned for September or October 2006. A discussion of the format of the public meetings was held. The next public meeting will continue to follow the same format as previous meetings. Two meetings will be held within the same week to give residents from both local communities an opportunity to attend. A booth for several separate topics will be set up with materials, posters, and handouts and residents can communicate and ask questions in an open forum.

Ms. Burdey asked whether the regulators are available at this time to attend the public meeting. CSSA would like EPA's and TCEQ's input on conducting the public meeting. TCEQ and EPA were agreeable to conducting the meeting using a booth format and the time frame did not pose any immediate schedule concerns. Mr. Lyssy stated that he is comfortable with the meeting occurring during the September/October 2006 timeframe.

The discussion shifted to anticipated changes in the local community and new housing developments. Ms. Burdey explained that Centex has obtained a 100-acre tract for a new subdivision. Maps were distributed and the locations of the plume and the new subdivision was reviewed. Ms. Vaughn explained that planning details for other subdivision/developments in the immediate area are not yet confirmed. The Centex development is immediately adjacent to well RFR-10, Mr. Klabunde's property, that has impacted groundwater.

Mr. Rayos asked whether the subdivision will have a water utility of its own. Ms. Vaughn explained that the Centex subdivision will obtain their water from San Antonio Water System, most likely from a surface water source such as Canyon Lake. Ms. Sanchez confirmed that San Antonio Water System (SAWS) informed her they will provide water to the subdivision and do not intend to drill/install drinking water wells.

The necessity of updating the mailing list to include the new residences was discussed. Ms. Vaughn explained that residents can be informed through the mailing list or through newspaper notices about the public meetings.

FUTURE WORK

Ms. Burdey summarized the future work items that CSSA and Parsons have been discussing.

Anticipated work items for fiscal year (FY) 2007 were presented on Slide 13. Ms. Burdey asked for comments or suggestions from everyone.

Ms. Burdey explained the work planned for FY2007 includes additional sites to be investigated and possibly closed under TRRP, compliance plans, groundwater monitoring, public meetings, administrative record maintenance, National Environmental Policy Act (NEPA) items, and miscellaneous sampling. Other work to be performed will include additional B-3 efforts which are already underway.

Ms. Burdey explained the TRRP strategies for the future site closures may include combining similar sites for affected property assessment reports. Mr. Rayos asked about the ecological risk assessment (ERA), since previous discussions suggested completing a base-wide ERA. Ms. Power pointed out that Camp Bullis has almost completed their ERA and suggested CSSA attempt to combine that document with CSSA's to expedite the document's production.

Mr. Lyssy asked whether the same technical person within TCEQ could be assigned to the ecological risk assessment for both Camp Bullis and Camp Stanley. Mr. Rayos replied that there is no way to be sure because someone is not assigned to the project until the ERA is received at TCEQ for review. Ms. Burdey expressed that she would like to have another meeting during the ERA development to get everyone involved on the same page. Mr. Lyssy asked whether TCEQ's technical personnel can be included, but Mr. Rayos indicated there is no way to know who will be assigned. Mr. Lyssy suggests Cheryl Overstreet (EPA) be included in the ERA process, noting that Cheryl has worked with many of the TCEQ ecological risk staff. Ms. Burdey will contact her to arrange a meeting at a future date.

B-24 SOILS

CSSA will be constructing a new firing range berm in the East Pasture range area in the very near future. CSSA would like to use soil piles at SWMU B-24 for the berms. These soil piles are the result of UXO investigation of landfill material in several trenches at B-24. The trenches were excavated in 1997 and the material was sifted to remove UXO. Consequently, most other waste (greater than 2 inches in size) was removed. The soils contain metals concentrations above background levels and above TRRP PCLs. However, CSSA feels that using these soils for the berm (which will become contaminated as part of the normal firing range operations) is a good re-use of material. Whenever the firing range is closed in the future, the contaminated soils in the berm will need to be properly managed.

After much regulator discussion over moving metals-contaminated soils from B-24 to the east pasture firing range for use as a berm, the consensus was that this was no problem, a deed restriction would not be needed, and Mr. Lyssy would provide his approval in writing or it can just be included in the meeting minutes."

FOLLOW-UP ISSUES AND ACTION ITEMS

Determine whether TCLP SVOC analysis includes all explosives constituents per Mr. Rayos' concerns, and verify that the analytical method for the explosives analysis is acceptable to TCEQ.

Finalize WMP and B-3 addendum to WMP.

Determine whether explosives analysis has been conducted for CSSA groundwater. Implement explosives analysis for one round of sampling, if appropriate and deemed necessary by TCEQ.

Confirm with TCEQ that September/October 2006 is a good time to conduct the public meeting.

Update the Community Relations Plan (CRP) and mailing list.

Setup meeting with Cheryl Overstreet and TCEQ to discuss ERA.



DEPARTMENT OF THE ARMY
CAMP STANLEY STORAGE ACTIVITY, RRAD
25800 RALPH FAIR ROAD, BOERNE, TX 78015-4800

Agenda for Technical Progress Meeting Number 03

Construction of Outfall Reuse System, Aboveground Storage Tank Relocation & Interim Remedial Actions at SWMU B-3 & AOC-65 AFCEE WERC, Task Order 06

Time: Wednesday, April 19, 2005; 9:30 am to 12:00 pm

Place: Building 98, Camp Stanley Storage Activity

Proposed Order of Discussion

| Date & Time | Topic |
|------------------------|---|
| 9:30 am- 10:30 am | Site Tour of SWMU B-3 |
| 10:30 am – 11:30 am | SWMU B-3 Status of injection test, bioreactor, removal action Revised waste characterization approach, finalizing WMP |
| 11:30 am – 11:45 am | Public Meeting Task Order and Program Management (WBS 90000) Well 16 Pumping Tests (WBS 12000) |
| 11:45 am – 12:00 pm | Future Work |

Task Order 0006 TIM #3 Sign-In Sheet

| <u>Name</u> | <u>Organization</u> | <u>Phone</u> | <u>E-Mail</u> |
|------------------|---------------------|--------------|-------------------------------|
| Eric North | Parsons | 512-775-7848 | eric.north@parsons.com |
| Brian Vandergras | Parsons | 512-719-6059 | brian.vandergras@parsons.com |
| Ken Rice | Parsons | 512-719-6050 | ken.r.rice@parsons.com |
| Julie Burdley | Parsons | 512-719-6062 | julie-burdley@parsons.com |
| Miguel Power | TCEQ-R13 | 210-403-4064 | APOWER@TCEQ.STATE.TX.US |
| Glare Sanchez | CSSA | 210-295-7354 | sanchezg@envirodept.net |
| GREG LYSSY | USEPA | 214 665 8317 | LYSSY, GREGORY@EPA.GOV |
| Brian SIEGFRIED | AFCC/PORTAGE | 210 536 5208 | brian.siegfried@bracks.af.mil |
| SONNY RAYOS | TCEQ | 512-239-2311 | SRAYOS@TCEQ.STATE.TX.US |
| JEFF ASTON | CSSA/COE | 210-336-1270 | astonj@canestunley.net |
| Kimberly Vaughn | Parsons | 512-719-6814 | kimberly.vaughn@parsons.com |

Technical Progress Meeting #3 TO-06, 744223

April 19, 2006
Camp Stanley Storage Activity
Boerne, TX

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Agenda

- **9:30 am**
 - Site Tour of SWMU B-3
- **10:30 am – 11:30 am**
 - SWMU B-3
 - Status of injection test, bioreactor, removal action
 - Revised waste characterization approach, finalizing waste management plan
- **11:30 am – 11:45 am**
 - Public Meeting
 - Task Order & Program Management (WBS 90000)
 - Well 16 Pumping Tests (WBS 12000)
- **11:45 am – 12:00 noon**
 - Future work

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Purpose

- Discuss UXO incident and affect on project
- Obtain concurrence from TCEQ and EPA on proposed course of action at SWMU B-3
- Finalize comments on WMP
- Obtain input on future projects and Public Meeting

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SWMU B-3 Work Planned

- Originally planned removal of the remaining debris and contaminated soils from landfill trenches
- Excavated materials expected to contain low levels of lead and VOCs
- However, a UXO item was discovered, therefore SVOCs (which include explosives) are added to waste characterization analyses (TCLP analyses)

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B-3 UXO Clearance Required

- Removal activities in April 2006 uncovered a 4-inch Stokes mortar in first week
- Waste and soil removal actions STOPPED pending plan approval to add UXO avoidance to excavation scope
- Bioreactor construction plan modified by delaying until removal action is complete
- Work is halted until scope of work and plans are revised



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SWMU B-3 UXO Clearance

- Excavation will commence with UXO technicians providing identification & avoidance support.
- Based on size and quantity of UXO encountered, soil sifting may be required.
- Excavated materials will be characterized by sampling at a frequency of 1 per 200 cubic yards and analyzed for TCLP metals, VOCs, and SVOCs (which include explosives)

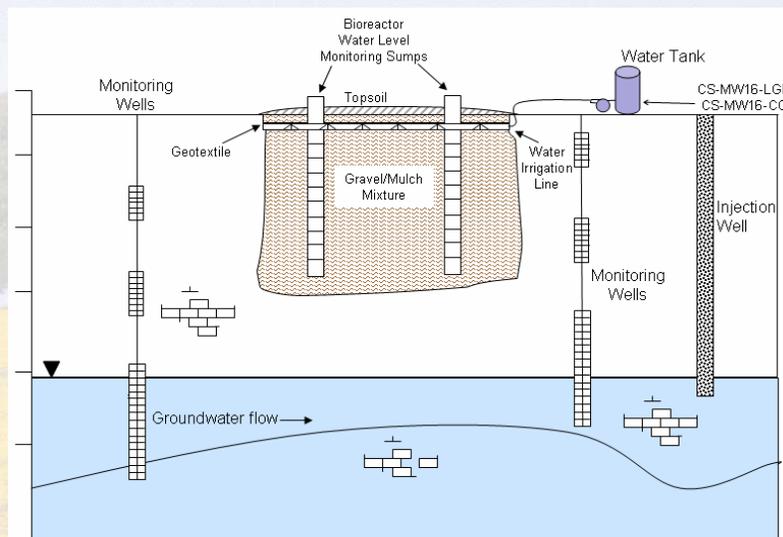
6

SWMU B-3 Historical Data



- Soils total data, No potential for Exceedance of TCLP
- TCLP data below hazardous criteria
- Soils total data, Potential for Exceedance of TCLP
- TCLP data exceeding hazardous criteria
- Soil Gas Points
- ▨ Trenches

Design Plan for Bioreactor



Anticipated Schedule SWMU B-3 and Related Activities

- Tracer Test
 - Started March 15, 2006
- SWMU B-3 Injection & Aquifer Treatability Test
 - Implemented injection April 7, 2006
- SWMU B-3 Excavation & Bioreactor Construction
 - Excavation temporarily stopped pending review, UXO avoidance plan development and AFCEE contract modification.

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RFI Waste Management Plan

- TCEQ review in progress. CSSA has no issues with comments received to date. Does TCEQ have additional comments?
- WMP Addendum regarding SWMU B-3 to be revised based on characterization approach agreed on today.
- CSSA desires TCEQ approval of Final RFI WMP, once TCEQ comments have been incorporated. Timeline?

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Centex Development

- In October 2005 a 100 acre tract was purchased by Centex Homes at 25490 Ralph Fair Road, immediately west of CSSA
- Residents report other sales are pending to housing developers, none confirmed
- Water usage for Centex development will be from San Antonio Water System (surface water)
- New residents = increased local concerns over CSSA activities

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Public Meeting – Fall 2006

- Goal to hold another Public Meeting in Fall of 2006
- Format for public meeting to follow previous meetings
 - Specific topic areas will be presented with general question and answer format
- Community Relations Plan (December 2002)
 - Update to CRP pending to incorporate changes in community
- Mailing List and Fact Sheets
 - Groundwater Fact Sheets will be sent once annually and other topics as needed (April 2006 B-3 Fact Sheet/Truck Traffic)
 - Revise mailing list to reflect new residents in area

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Proposed FY 07 CSSA Work

- SWMU and AOC Investigations/Closures: ~\$750K.
 - Anticipated to include sites at North Pasture SWMUs and other high priority sites.
- Compliance Plans and Studies: ~\$400K.
 - Various plans are needed, including lead/asbestos and specific SOPs
- Groundwater Monitoring: ~\$300K.
 - Includes 4 rounds of sampling, monthly on & off-post GAC maintenance, data validation, meetings and work plans.
- Administrative Support: ~\$400K.
 - Includes EPA Quarterly Reports, environmental encyclopedia (administrative record) updates, Public Meeting, Document Management System development, LAN Support.
- NEPA and Miscellaneous Sampling: ~\$300K.
 - Includes NEPA support, associated UXO removal actions, miscellaneous sampling/disposal, range maintenance and construction oversight.

13

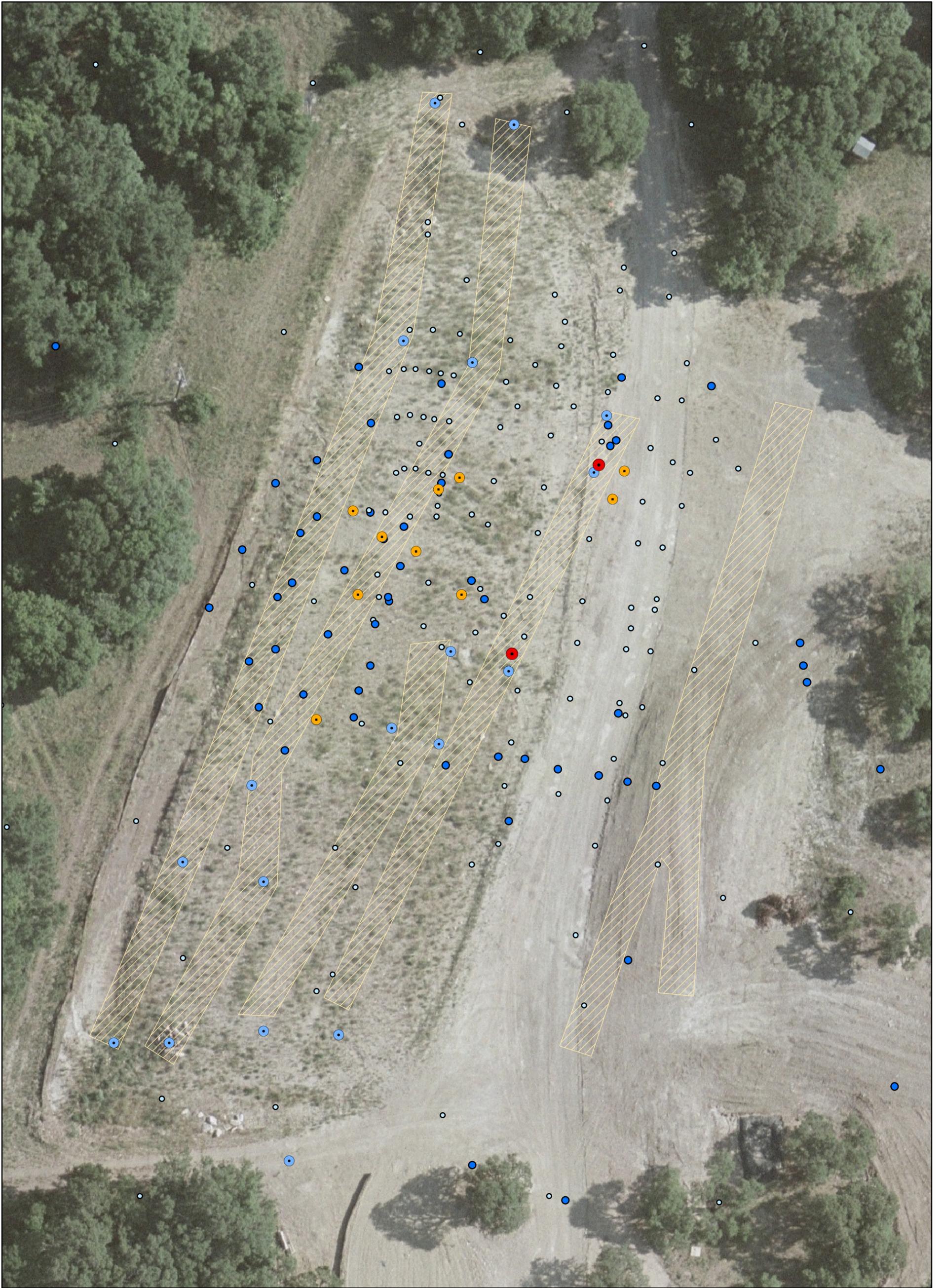
Proposed Future CSSA Work

- Future SWMU B-3 Efforts
 - Unknown scope, plans will be based on outcome of current studies
- Future SWMU B-24 sifted soil
 - Recycle sifted soil into new small arms firing range berm soil at CSSA Range Management Unit 1
- Technical approach for TRRP site closure strategies
 - Guidance to group similar sites
 - Guidance for ecological risk assessments

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Conclusion

- Questions or Concerns



0 25 50 100 Feet

- Soils total data, No potential for Exceedance of TCLP
- TCLP data below hazardous criteria
- Soils total data, Potential for Exceedance of TCLP
- TCLP data exceeding hazardous criteria
- Soil Gas Points
- ▨ Trenches

Figure 1
 SWMU B-3
 Soil Analysis
 Camp Stanley Storage Activity
PARSONS