Request for Proposal

DRILLING SERVICES

USEPA REMEDIAL ASSESSMENT AND EVALUATION SERVICES (RAES), FORMER KERR MCGEE ABANDONED URANIUM MINES (AUM) PRIMARILY LOCATED WITHIN THE NORTHERN CHUSKA MOUNTAINS

Date:	August 22, 2018
То:	All Offerors
Subject:	Addendum No. 1
	Consisting of six (6) Pages
Project Name:	Remedial Assessment and Evaluation Services, Northern AUM Region, Cove and Sweetwater Areas
Owner:	Environmental Protection Agency

Addendum No. 1

Offeror shall make note of and/or incorporate all changes listed below and or attached into the Request for Proposal (RFP) and their proposal:

- 1. Comments, questions with answers asked by attendees to Environmental Protection Agency, Navajo Abandoned Uranium Mines, and Tetra Tech in this adddendum.
- 2. Sign-in sheet, updated maps and quantities tables are included in this addendum.
- In the northern area near Sweetwater, AZ, which is accessed by US Hwy 160, a wet decontamination (1/2 day) is required for full-release before entering the US Hwy 160. Block A (Sweetwater Chapter) is eliminated. Subarea Group B Block K has 13 boreholes scheduled. A laydown area will be necessary for Block K, and mobilization charges for this area should be included in the mobilization line item area.

END OF ADDENDUM NO. 1

Thank you for your interest.

Quentin Benally

Estimator / Project Coordinator

Project Contact Person



The following questions and comments were brought up at the highly-recommended site visit held at the Cove AUM area. During this meeting, United States Environmental Protection Agency (EPA), Tetra Tech, Inc. (TT), Environmental Restoration Group (ERG), Navajo Engineering and Construction Authority (NECA) and invited drilling companies discussed logistics, radiation decontamination, sampling procedures and many other items. The questions/answers/comments are provided to offerors for use in preparing their proposal.

Updated maps with proposed bore locations, a revised quantities table and the site visit sign in sheet will be uploaded to the NECA website. In reference to the following sections numbers, the following questions and comments are addressed with these clarifications:

Section 2.4.3 DRILLER RESPONSIBILITIES AND DUTIES

- Will drillers be allowed to hand excavate a small area for the out rigger pads to allow the drill to be stabilized on steeper slopes? Answer: For safety reasons, yes. This area will be scanned before any hand excavation is performed and after for final status survey.
- Drillers will be required to wear Tyvek.
- Eating, drinking AND smoking is not allowed in drilling areas. Personnel will be scanned prior to any breaks (eating, drinking, smoke, etc.).
- Is 10-year experience needed or can we send drilled we believe can do job? Answer: Provide qualifications which will be evaluated, according to the Evaluation Criteria set in 4.1.1.
- Clarify Decon requirements and decon procedures. Answer: Drilling must comply with all health and safety procedures outlined in the RFP, and any that will be implemented if the need arises. Refer to sections 2.4.9, 2.4.10 and 3.6.

Section 2.4.7 CONE PETROMETER TESTING

• Per EPA Cone Penetrometer Testing CPT is removed from this project and any quotes.

Section 2.4.9 DECONTAMINATION

- Who will provide the radiation scanning of equipment and personnel? Answer: ERG or TT will have a radiation safety technician present at all times, or nearby.
- Are personal radiation badges are required or will the air sampling ERG is going to do is sufficient to determine individual exposure? **Answer: Awaiting additional clarification on this question.**

- Driller's mentioned rigs may stay on AUM site until completion, eliminating daily rig-moving to laydown yard thereby decreasing wear and tear on the drill and possibly increasing drill availability for sampling. Can security be provided if rigs left at borehole? Answer: NECA's non-weapon, 24/7 security will be able to monitor the laydown yard, as well as secure equipment left on the AUM work site.
- Dry decon is generally acceptable for drill rig when going from borehole site to borehole site. The spilt spoon will be wet deconned when borehole completed to prevent cross contamination between boreholes. Water from split spoon wet decon will be allowed to fall on the ground at the borehole as this site is the source for the material being removed.
- A background scan will be done on drilling equipment initially, prior to going to proposed drilling sites.
- Wet decon will be done prior to demobilizing onto public roads, typically ½ day to complete. NECA will provide a water truck, hot water pressure washer, and any containment material necessary. If wet decon of drilling equipment is done in public areas such as near a chapter house, decon water will be collected and stored in an approved container for disposal at an approved facility. NECA is responsible for collecting, storing and shipping decon water to an approved facility.

Section 2.4.10 INVESTIGATION DERIVED WASTE (IDW)

- All drill cuttings will be placed back into borehole and may need a fence post hole tamper digger bar to compact cuttings. Drillers are responsible to drum any drill cuttings that cannot fit back into the borehole. Drums are to be left at the individual AUM site from where it originated.
- NECA is responsible for pickup, and arranging transfer to proper waste facility. EPA will retain liability as the generator by signing shipping manifest.
- In public areas such as near the Chapter Houses, water from wet decon of drills will be collected and contained for evaporation in a secured area rather than allowing the water to fall onto the ground for public relations purposes. Since the wet decon of the spilt spoon to prevent cross contamination of samples will be done at the borehole, the decon water will be allowed to fall on the ground. Is this IDW approach acceptable to EPA? Answer: Yes for the split spoon decon only. Because of the short duration of the project, the drillers should assume IDW disposal for wet decon of the drills. NECA is responsible for collection, storing and transporting IDW to an approved disposal facility. The IDW should not only be secure but there should also be secondary containment.

Section 2.4.11 BID AND COSTING INSTRUCTIONS (WITH ASSUMPTIONS)

- Davis–Bacon wages are not required for this project. Answer: Per EPA, Drilling will NOT fall under Davis-Bacon Wages if it is being used as a means for testing and not actual construction.
- Clarify work hours expected for daily rate. Answer: 10 days, 4 days off. A travel day is scheduled on each end of the 10-day period resulting in 8 days being available to be on site. Shifts are approximately 12 hours (including 1.5 hours' drive to/from staging area at Cove AZ/Farmington NM, travel from staging area to proposed drilling site and drilling including moving between boreholes.
- As a clarification, monitoring wells are not included in the scope of work.
- Drillers should provide a stand by charge as a line item.

Section 2.5.1 CENTRAL STAGING AREA

- Can client describe the extent of the security that they will provide? Answer: NECA is prepared to provide non-weapon security, 24/7 for the duration of the drilling operation. The laydown yard will be fenced, and monitored by security during drill operation hours. During off hours, security will travel between the laydown yard and AUM site where drill rig is left overnight. During the 4-days off, drill rigs are to be parked at the laydown yard, and security will monitor the laydown yard only. Refer to the following items, and section 2.5.1 of the RFP.
- NECA's yard was considered for drilling equipment storage during the 4 off days. During discussions with ERG at the end of the site visit, this site was eliminated as a laydown yard due to ½ day wet decontaminations required to move from project site to NECA's yard.
- Due to the distance between drilling sites and clearance restrictions caused by boulders and rough rocky sections on Mesa I access road, NECA might potentially need to provide 3 laydown yards (Cove Tower, near Buffalo Pass, and near Subarea Group B, Block K). The drillers had concerns about damaging drill rigs by driving up a down the access roads each day and may opt to leave drill rigs at the drill site each night. **Answer: A second laydown yard atop Buffalo Pass will only be considered if drilling equipment cannot be left at individual AUM site.**
- Previous projects are reported to have had issues with trailer thefts, causing additional concerns regarding security for drills and supply trailers. **Answer: See first bullet under 2.5.1.**
- NECA will coordinate with driller on security requirements and laydown yard location(s). Laydown yard locations will be discussed with Tetra Tech and EPA to see if cultural clearances are required.
- Drilling on steep slopes on steeper slopes, drills are anticipated to be placed along contour which may require excavation of flat areas for outrigger pads to stabilize drill for safe drilling. Will this hand excavation be allowed? Can a small dozer (D4) be provided to serve as an anchor for drill to position on a steep slope? Answer: Hand excavation to clear a flat area for drill outrigger pads is allowed. The disturbed area will be restored by NECA. NECA will provide a small dozer (D4 or similar) to anchor drill on steeper slopes per approval by Aaron Orechwa (TT) and Chip Poalinelli (EPA). All tracks on the site that could create a run-off channel must be completely restored by NECA.
- The MESA I Yard site will require travelling off the established road to access the proposed sites. Since the proposed borehole locations are in an area that has been cleared, travelling off the road to borehole sites is assumed not to need any new clearances. Answer: The access routes are being finalized. The borehole locations and proposed access off existing roads to the boreholes are being submitted to Navajo Historic Preservation Department (NHPD) for clearance. EPA has indicated that light excavation will be allowed to create access for the Mesa I Camp and Mesa I Mine 15 sites.
- Where will the sanitation facilities be located for drilling? Answer: The current sanitation facilities located at the Cove Water Tower will be used for the environmental drilling project. NECA will not be providing any new sanitation facilities at the Cove area, but may be necessary at Subarea Group B (east of Sweetwater Chapter).

Section 2.5.2 SITE ACCESS AND PREPARATION

• The drillers indicated that a small dozer, D4, would be beneficial on steeper slopes to anchor drills. Will this be allowed? **Answer: See answer in Section 2.5.1, bullet 6**

Section 2.5.3 ACCESS CLEARANCES AND PERMITTING

- Who is responsible for utility locates near the Cove and Sweetwater Chapter Houses? Answer: NECA will provide utility locates. NECA will call 811 and or Navajo Tribal Utility Authority (NTUA), and name responsible parties on the ticket. NECA will provide a Hydro-Vac trailer necessary to physically locate utilities.
- Can NECA contact Cove Chapter for water or will that be done by EPA? Answer: The chapter will not be contacted. NECA will acquire a permit through Navajo Nation to provide water for drilling and decon.
- Since the proposed boreholes are in areas that have been previously cleared, will any additional clearances be needed for travel ways created by drills when leaving roads to access the proposed borehole site? **Answer: See answer in Section 2.5.1, bullet 7.**

Section 2.5.4 SUBSURFACE SOIL SAMPLING

The downhole sampling interval and drilling technologies were discussed as a group with Aaron Orechwa and Chip Poalinelli, EPA with the following summary provided.

- Clarify sampling procedures. Answer: The sampling procedures include:
 - Sampling will be in 6-inch increments from surface to 18 inches. After 18 inches the sampling increment will be 18 inches to 24 inches depending on ground conditions to total depth or refusal.
 - The gamma probe diameters available are either 1-inch or 2-inch although the 2-inch diameter probe is preferred.
 - A PVC casing is preferred to minimize the attenuation of signals caused by the drill steel. An auger steel, 3 ¼ inch I. D., is acceptable if drillers choose to provide. Any temporary PVC casing installed should have an I.D. large enough to pass a 2-inch diameter gamma probe to provide better clearance for the gamma probe. Tetra Tech will collect the soil samples, bag, label and haul the samples off site for analysis.
 - Hollow stem auger (HSA) is the preferred drilling technology although sonic drilling technology can also be provided. Direct push drilling is not acceptable.
 - Trenching with a backhoe to obtain samples is NOT acceptable.
 - Drillers are encouraged to supply information on sonic drilling capabilities and specific drills that may be provided such as crawler mounted, buggy, rubber tire mounted in their proposals.

Section 3.4 PRIMARY STAFF

• Is 10-year experience needed or can we send drilled we believe can do job? Answer: Provide qualifications which will be evaluated according to the Evaluation Criteria set in 4.1.1.

Section 3.6 HEALTH AND SAFETY PLAN AND RADIATION PROTECTION PROGRAM PREPARATIONS

• ERG providing another person on site. Answer: Addressed in section 2.4.9

• ERG and Tetra Tech will determine if the drillers need to wear individual TLD badges or if the air sampling that ERG will conduct is sufficient to determine individual exposures to radiation. **Answer: Addressed in section 2.4.9**

Section 3.10 LICENSING, CERTIFICATIONS, AND OTHER QUALIFICATIONS

• Is 10-year experience needed or can we send drilled we believe can do job? Answer: Provide qualifications which will be evaluated according to the Evaluation Criteria set in 4.1.1.

Tronox NAUM Environmental Drilling Site Visit August 15, 2018

No.	Name	Company	Phone	Email
1	BILL BALAZ	TETLE Tech	970 260 1655	bill balas totated
2	Marc Hues	Authentic Drilling	719-232-5605	marca authentic dri
3	Marietta Jensen	navajo Ame	928-871-6584	mjensene ico navajo-nsn.gov
4	Kailee Jensen	navajo AML	928-882-9130	337. Kalligh Damain.
5	Shania Vazzie	NAML	520-921-9846	sty25@nav.ed
6	Cortasha upshaw	NAML	(928) 871-6982	Cupsbananavarions
7	Gilbert Dayzie	Navajo ANR	(505)368 1220	1 days re a number anns
8	Chip Poalinelli	USEPA	415-972-3390	Balnolli - Elimeter
9	Melvin H. Jazzie	Navajo AMCR Dept.	505-368-1220	mhyazzie@ frontiernet.net
10	GREG JOVES	RESILIENT DRIVING	602 526 7464	gragiones &
11	Jim Herning	IdraTach	805-637-0624	ijm.hornickdradch
12	Jerung Bits	Tetra Tech	505 -715-1405	Jorcomy, Bekis@tel ralech.
13	Quentin Benally	NECA	505-635-0557	Quentine naroprot
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Proposed Drill/Sample Locations

Site ID	Subarea	Investigation Area Name	Site Type	Proposed Drilling Type	Proposed Bore Holes	Notes
M2	Group B	Block K	AUM Site	Hollow Stem Auger	13	
Т9		Cove Transfer Station (N)	AUM Related Boundary	Hollow Stem Auger	10	
T37	Group C	Cove Transfer Station (S)	AUM Related Boundary	Hollow Stem Auger	7	Underground utility location detection required. Buried water line north of north most drill location.
M6		Mesa I Mine 13	AUM Site	Hollow Stem Auger	7	
M8	Group D	Mesa I Mine 15	AUM Site	Hollow Stem Auger	8	Light earth work required for access to 4 of the 8 proposed drill locations. Gamma scanning will be performed before and after any such work.
T17		Mesa I Camp	AUM Related Boundary	Hollow Stem Auger	13	Light earth work required to access 11 of the 13 proposed drill locations. Gamma scanning will be performed before and after any such work.
M15		Mesa V Incline	AUM Site	Hollow Stem Auger	6	
M18	Group F	Mesa V Mine - 508	AUM Site	Hollow Stem Auger	5	
T23		NA-0344B	Lone Burial Cell	Hollow Stem Auger	16	
Note: Revised 2018/08/17 per site visit.			Total	85		



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- Non-AUM Target
- Background Sampling Location
- Field Sampling Group
- Navajo Nation Chapter Boundary L _
- ----- Access Route Vehicular

Notes:

1) Access to Group A via unmarked dirt track approximately 18.5 miles west of Teec Nos Pos on Indian Route 35. Site location for Brodie I is 1 mile south of Sweetwater Chapter House on unverified dirt track. 2) Access to Group B via unmarked dirt road approximately 10.5 miles west from Teec Nos Pos on U.S. Hwy 160. Site location for Block K is 2.4 miles south on dirt road.

	TSE TAH REGION AND SUBAREA MAP			
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Note: Overground access and drill locations on sloped uneven terrain.











