US Department of Agriculture (USDA)

Statement of Work

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Project
Ouray Ranger District Vault Toilet Pumping

General Information
1.0 Scope of Work

Regular and as-needed vault toilet pumping at multiple locations on the Ouray Ranger District within the Grand Mesa, Uncompahgre, and Gunnison (GMUG) National Forests.

Contractor Requirements
3.0 Technical Requirements / Tasks

Contractor Equipment shall meet or exceed these minimum requirements:
1. Pumper tank capacity of 1500 gallons.
2. Vacuum pump.
3. 3 inch diameter intake valve and 200 feet of hose.
4. Long handled grappling device.
5. Capability of carrying extra water for cleaning purposes and for re-charging.
6. Back-up warning devices.

The contractor shall provide all personnel, equipment, tools, materials, vehicles, supervision and other incidentals necessary to perform the services listed.

There are several different vault toilet designs including:
- Single unit/single vault
- Double unit/double vault
- Double unit/single vault
- Septic Systems

All vaults have a maximum capacity of 1000 gallons and need pumped when they reach 80% Capacity, with 90% of the vault contents removed per standard commercial practices. All vault waste shall be disposed of at a commercial treatment facility off National Forest Lands. Applicable OSHA, State and Local laws and regulations will be followed. It shall be the responsibility of the Contractor to secure permission from local municipal plants to add such waste to their system with any cost to be at the Contractor's expense.

Pumping Procedures when an outside Manhole is Available
As long as the outside pump-out access is in excess of 20 inches in diameter (or 20 inches square) the Contractor shall not be allowed to remove the vault contents through the toilet riser.

After removing the manhole cover, use the clam rakes or long handles grabber to remove as much of the debris as possible before trying to pump out the waste. This procedure will help stir up the contents of the vault and breakup the dense concentration of waste typically located just under the toilet riser (the impact zone).

By removing most or all of the debris before pumping, the Contractor will find that the hose will not clog so often and the liquid portion of the contents will not be removed before the thicker solids are removed.

All Debris Removed From The Vault Shall Be Placed Into A Leak Proof Container So That No Contamination To the Surrounding Ground Will Result And Remove From The Site.

If the bottom of the vault is flat, then the waste shall be removed to within 4-5 inches of the bottom. At this point the hose will begin to suck air (vortexing) and further removal will be slow. At this time remove any further debris that was not removed during the initial raking and removal. Using a high-pressure jet washer

system, wash down the interior walls of the vault before the clinging debris has a chance to dry. If at this time there is a heavy concentration of solids on the bottom of the vault, use the high-pressure jet washer system to break up and dilute the solids and then pump this diluted waste, down again until the suction hose begins to suck too much air to make further pumping practical. The flat-bottomed vault shall now be pre-charged with enough clean, fresh water to bring the depth of water up to 10 inches.

If the bottom of the vault is sloped (all vaults should be sloped a minimum of 1 inch per ft.), then pump the waste down (at the deep end) to where the hose begins to suck air. Remove any remaining debris and then go inside the building with the high-pressure jet washer system and wash the remaining waste down the sloped bottom. Wash down the vault walls from inside the building or from the outside manhole, whichever is easier. Now pump out the remaining waste and the water that was just added by the high-pressure jet washer until the suction hose begins to suck too much air to make further pumping impractical.

Pre-charge the vault with clean, fresh water so that there is 10 inches of water covering the bottom under the toilet riser. Add the recommended amount of Citrus deodorizer (or equivalent) to deodorize the remaining vault contents.
Thoroughly clean and disinfect all contaminated areas resulting from the pumping process. Either sweep or wash all waste that is deposited on the concrete surrounding the manhole cover, back into the vault if possible. The waste that runs off the edge of the concrete, onto the dirt or into the gravel edge, will be an attractant for flies, a potential health risk and an odor problem. This problem should be avoided. Clean thoroughly around the manhole cover gasket area and replace the cover. The manhole cover MUST fit with an airtight seal so that the venting process of the vault toilet is not interfered with. If there is not an airtight seal, the Contractor shall notify the COR and District Representative.

Pumping Through the Toilet Riser When There Is No Outside Manhole
The Contractor shall remove the toilet riser prior to pumping or removing debris. The Contractor shall not remove debris through or pump through the toilet riser without removing the riser. Remove the debris and pump in accordance with 4-1.

Extra care shall be taken to prevent waste spillage onto the interior floor and wall surface while removing debris and while pumping. The toilet paper dispenser and toilet riser shall be protected from damage and the toilet paper shall be covered with waterproof material prior to removing debris or pumping, in order to prevent the paper from getting contaminated.

During the final cleanup, the interior floor surface and any wall surface that was contaminated by waste shall be thoroughly disinfected. Again, every effort shall be made to sweep or wash the spilled waste back into the vault. The Contractor shall not allow the spilled waste to be washed or swept out through the front door because the waste will collect at the edge of the concrete and the dirt (or gravel) will become an attractant for flies, a possible health risk for barefoot persons and an odor problem. Thoroughly wash and disinfect both the inside and outside of the toilet riser and the seat and cover before replacing the riser. The toilet riser and seat shall be dry before the Contractor leaves the work site. Remove the waterproof covering that was protecting the toilet paper and make sure the paper did not get contaminated. If the paper did get contaminated, The Contractor shall notify the COR or District Representative. The door handles or knobs shall also be disinfected and dry before the Contractor leaves the job site.

Each unit shall be available for immediate use after the pumping and final cleanup. The Contractor shall not leave any toilet location until the final cleanup is accomplished.

Offsite Disposal of Sewage and Debris
The Contractor shall be properly licensed and shall be responsible for making disposal arrangements, including disposal of all effluent, debris, and trash, and payment of all fees.

Disposal shall conform to all Federal, State and Local laws and ordinances. COR shall approve all disposal sites before pumping begins.

The Contractor shall be responsible to prevent spillage and to haul all waste material (sewage and debris) in watertight containers. Handling of all waste material shall be in accordance with all applicable health regulations.
"The Contractor shall dispose of all effluent in a State approved water disposal facility and shall furnish certifications of written evidence that only such approved facilities are used. Dumping at sanitary landfills shall not be permitted. No septic or vault waste shall be dumped on agricultural lands or private properties. Dumping shall only occur in Forest Service lagoons with written approval."

Conduct of Personnel
The Contractor and his/her employees shall make every reasonable effort to prevent interference with the normal use and occupancy of recreation areas while engaged in the performance of the agreement. Due to the nature of the duties under the agreement, the Contractor and his/her employees shall keep themselves and equipment presentable at all times. The Contracting Officer may, in writing, require the Contractor to remove from the work site any employee the Contracting Officer deems incompetent, careless, discourteous to the public or is otherwise objectionable, or for theft, possession and/or removal of materials, supplies, equipment or any Government-owned property.

Resource Damage
Any damage or defacement that occurs to government property or land resources during the Contractor's operations shall be repaired at the Contractor's expense to its original condition. Onsite Inspection will be made by the COR or District Representative prior to acceptance of work.

4.0 Government Furnished
None

5.0 Deliverables / Schedule for 2026-2027 Season

Key Deliverables for 2026-2027 Season

Item No.	Location	Location	Gallon Capacity per Toilet	Pump Frequency	Dates
1	38° 2'8.94"N, -107°48'24.25"W	Blue Lakes Trailhead	1000/vault 2 vaults	1	8/1/26-7/31/2027
2	37°59'35.72"N -107°42'3.27"W	Thistledown Campground	1000/vault 2 vaults	3	8/1/26-7/31/2027
3	38° 0'22.18"N -107°41'32.67"W	Angel Creek Campground	1000/vault 2 vaults	2	8/1/26-7/31/2027
4	38°12'7.20"N -107°30'54.68"W	Middle Fork Upper	1000/vault 1 vault	2	8/1/26-7/31/2027
5	38°12'17.79"N -107°31'15.68"W	Middle Fork Lower	1000/vault 2 vaults	2	8/1/26-7/31/2027
6	38°25'33.06"N -108°22'46.20"W	Columbine Pass Staging	1000/vault 2 vaults	2	8/1/26-7/31/2027

Timeframes can vary due to several factors such as amount of use a toilet receives throughout the year and accessibility due to weather restraints.