

TRIHYDRO CORPORATION
SCOPE OF WORK
DOMINION ENERGY WEXPRO POWDER WASH EVAPORATION FACILITY

Please provide a cost estimate to install 4 groundwater monitoring wells (as defined below) at the Dominion Energy Wexpro (Wexpro) Powder Wash Evaporation Facility in Powder Wash, Colorado. Trihydro anticipates utilizing a truck mounted hollow-stem auger drill rig at the 4 locations. Trihydro anticipates commencement of this work to start in October 2018.

Trihydro will specify the location of excavations to be performed in accordance with applicable excavation notice system requirements (e.g., “One-Call,” “811,” etc.). Figure 1 provides the necessary information to call in a utility locate request, i.e., street identification and township, range, and section identification. Drilling Engineers, Inc. (the “drillers” or “drill crew”) will conduct the applicable excavation notice. Trihydro will work with the drill crew as necessary to conduct pre-excavation meetings with the owner/operator of the excavation site(s) to locate private utilities that may not be included in the scope of a “One-Call” system, and have the owner/operator sign off on any and all private utilities at the excavation site.

Drilling Engineers, Inc. shall supply all materials and equipment necessary (as defined below) to install the monitoring wells. The drillers agrees to store any contaminated soil cuttings in steel containment drums (for Wexpro’s ultimate disposal).

The subsurface conditions anticipated to be encountered during completion of the work described in this document will include silt/silty clay, sand, sandstone, and claystone.

Drill crew must attend a daily site specific health and safety meeting (approximately 10 - 15 minutes) prior to beginning the day’s activities. Trihydro will provide a geologist to keep a detailed log of each borehole and collect soil samples (as applicable).

The following section includes a detailed breakdown of anticipated soil boring completion depths and well details. All monitoring wells shall be constructed in accordance with the guidelines set forth in General Well Construction Details section below.

BOREHOLE CLEARANCE

A One-Call will be necessary for utility clearance. However, borehole clearance will not be necessary unless any of the utility locators cannot locate their utility.

MONITORING WELL INSTALLATION SPECIFICS

1. Install four (4) 2-inch groundwater monitoring wells with hollow stem auger for monitoring purposes around the proposed perimeter of the Powder Wash Evaporation Facility. *(total depths approximately 30 to 50 feet below ground surface [ft-bgs])*
 - a) All 4 wells will be constructed with stick-up casings approximately 2.5 to 3.5 feet tall.

ANTICIPATED WELL SCREEN LENGTHS

1. All 4 locations will have 20-foot long, 2-inch diameter well screens which will be constructed with 5-foot screen intervals.

GENERAL WELL CONSTRUCTION DETAILS

1. All monitoring wells will be installed according to the rules and guidelines set forth in the Colorado Division of Water Resources Rules and Regulations for Water Well Construction, Pump Installation, Cistern Installation, and Monitoring and Observation Hole/Well Construction, 2 CCR 402-2.
2. Continuous split spoons sampling will be conducting at two-foot intervals to the bottom of the drilled interval.
3. Lithologic logging will be performed by a Trihydro geologist, based on the continuous split spoon cores. Trihydro will monitor TOV concentrations of the split spoon core with a PID to determine if soil samples will be collected.
4. The borehole diameter shall be at least eight inches in diameter.
5. The well shall be constructed with Schedule 40 PVC casing and a 20-foot screened interval (0.010-inch slot size).
6. All well casing sections shall be flush-threaded. The casing shall be fitted with a threaded bottom cap of the same material as the casing.
7. A sand filter pack (10/20 silica sand) shall be placed in the annular space surrounding the screened interval, to a minimum of two feet above the top of the screened interval.
8. Hydrated bentonite pellets/chips will be placed over the sand filter pack and placed in the remaining annular space to ground surface.
9. Complete monitoring well surface completions as stick-ups.
10. Clean up drill site upon completion of activities.
11. Decontamination of sampling devices and drilling equipment prior to use and between well locations with a pressure washer/steam cleaner is optional and will be determined on site; containerize decontamination water.
12. Decontamination of drilling equipment, if needed, may be conducted on Wexpro property with use of a decontamination containment trough. If soils and/or development water is deemed to be contaminated, they will be containerized for disposal at the completion of each monitoring well and the 55-gallon drums containing drill cuttings are to be labeled with the monitoring well location ID and secured with drum lids.

The driller will provide all materials and labor for drilling, well installation, and decontamination activities. Trihydro personnel will determine the actual well locations and recommended well completion details onsite.

Hard hats, steel toed boots, task-specific safety gloves, and safety glasses are required during the completion of the described work. Please provide personal protective equipment for your personnel.

No organic constituents are anticipated to be detected in soil and groundwater. A copy of Trihydro's Health and Safety Plan will be provided upon request. A copy of the same Health and Safety Plan will be available onsite. Each employee working on this project has a responsibility to work as safely as possible, identify and correct possible hazards. The training, health, and safety of employees on this project are the responsibility of the respective employer company. Therefore, each employer is encouraged to develop and provide a Health and Safety Plan for its employees.

Trihydro anticipates commencement of this work in October 2018. If you have questions, please call me at (404) 915-0367.

Thank you,

Paul Hildebrandt, P.G.
Trihydro Corporation