

Water Treatment Trailer Unit – \$6,500/month*

Description

Cox-Colvin's water treatment trailer rental unit, which currently holds an Ohio EPA state-wide permit-to-install (PTI), is capable of operating up to four submersible or sump pumps at a combined rate of up to 35 gallons per minute (gpm) to provide effective remediation of VOCs and SVOCs in groundwater or surface water. Once pumped, the contaminated water stream(s) is sent through a basket strainer and into an oil/water separator where any light non-aqueous phase liquid (LNAPL) is separated out and stored within the oil/water separator or gravity flows to an optional product holding tank located outside of the trailer. After passing through the oil/water separator, water gravity flows through an air stripper and into a transfer tank. The air stream from the air stripper is discharged, through a stack in the trailer, to the atmosphere or first through an optional 450 or 1,000 pound vapor phase granular activated carbon (GAC) vessel located outside of the trailer. Water within the transfer tank is automatically pumped through two bag filters (in parallel), followed by two liquid phase GAC vessels (in series), and discharged out the trailer to an appropriate location. During operation, totalized water flow, instantaneous water flow rate, LEL within the trailer, and LEL at the water discharge (if possible) are measured and displayed. An alarm transmittal and data acquisition system is incorporated into the unit which is capable of transmitting/storing system alarms and continuously logging totalized water flow and instantaneous water flow rate. The interior of the trailer is temperature controlled and is also capable of operating heated hoses for water flowing into and out of the trailer during winter months. Discharge of treated water must be performed in accordance with the requirements of the PTI and an NPDES permit/POTW authorization.

Specifications

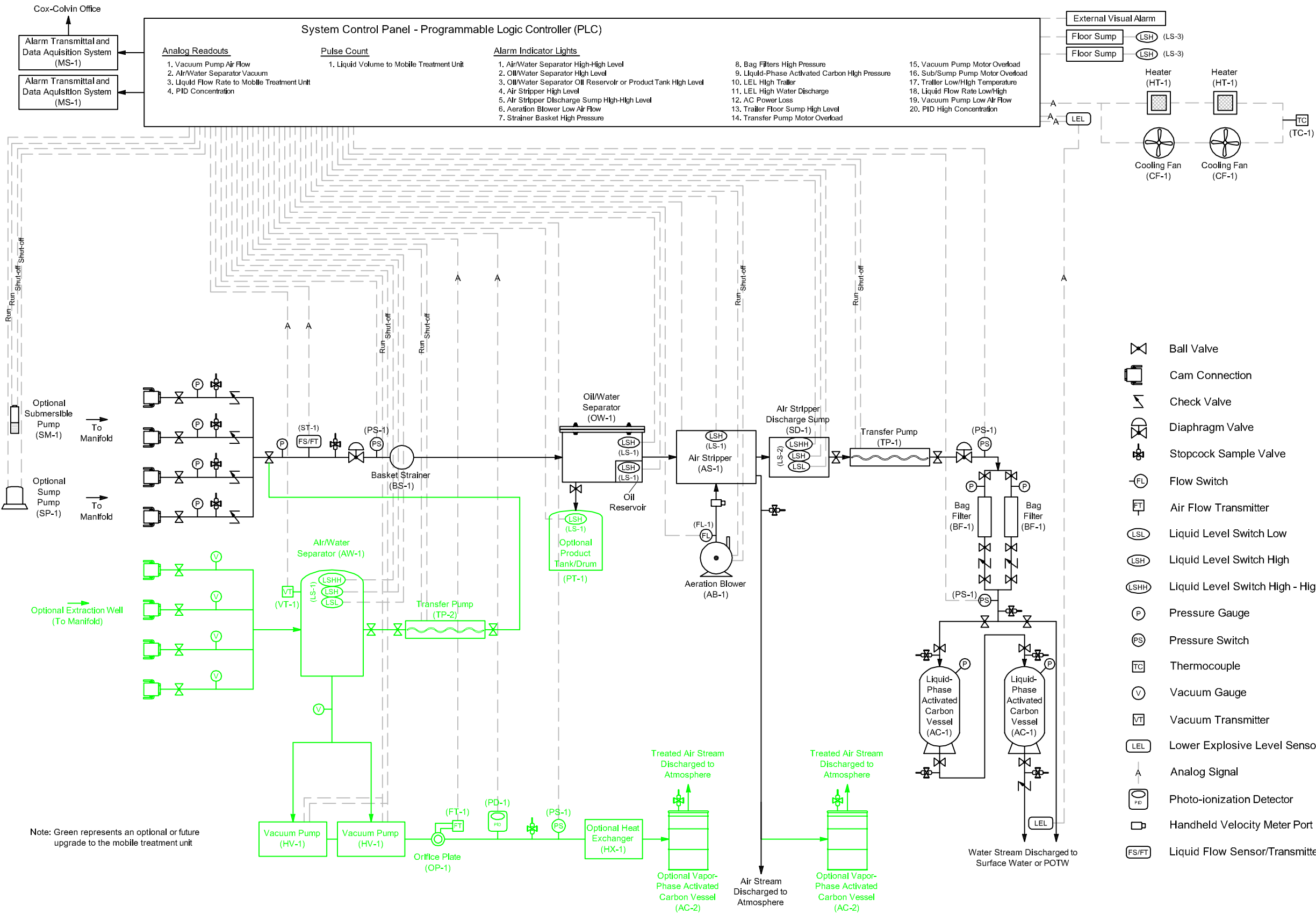
Refer to Figure 1 for a piping and instrumentation diagram. General system specifications include the following:

- 28 ft x 8 ft enclosed trailer;
- highly automated operation;
- water flow rate may vary based on site-specifics (35 gpm max);
- submersible and sump pumps (110V or 220V, 1-P) can vary by site;
- oil/water separator (Hydroflow TSO12);
- low profile diffused air stripper (Carbtrol MSD-6);
- centrifugal transfer pump (Gould's 3642 2BF22034);
- 50 micron bag filters (Filter Specialists X100B);
- 500 pound liquid phase GAC vessels (Tetrasolv Filtration AF500); and
- 480V 3-P 50A electric requirement.

*additional charges for mobilization/demobilization, optional equipment, consumable materials, etc. apply.



If you are interested in renting this equipment, please [email](mailto:info@CoxColvin.com) Cox-Colvin & Associates, or call us at (614) 526-2040 and ask for Nick Petruzzi.



As-Built Piping and Instrumentation Diagram, Mobile Treatment Unit