



ALASKA NATIVE
TRIBAL HEALTH
CONSORTIUM

Field Environmental Health Program
4500 Diplomacy Drive, Rm 423
Anchorage, Alaska 99508
Telephone: (907) 729-5612

August 11, 2023

Phil Zavadil
City Manager
City of Saint Paul
P.O. Box 901
Saint Paul, Alaska 99660

RE: Environmental Health & Safety Survey of the Saint Paul community water system, wastewater system, and landfill, July 18, 2023

Dear Mr. Zavadil,

The following document contains a summary of findings from an environmental health and safety survey of the Saint Paul community water system, wastewater system, and landfill. This survey is a non-regulatory, consultative service provided by the Alaska Native Tribal Health Consortium (ANTHC) at no cost to the community.

Utilities in Saint Paul are well-run and professional. It was a pleasure working with Mr. Dirks. All recommendations can be made at the will of the community.

The findings of this report are grouped by location and prioritized by importance. Recommendations from this report are made to improve the public health and safety of Saint Paul. Implementing the recommendations in this report may also help Saint Paul comply with the regulatory requirements of the State of Alaska Department of Environmental Conservation (DEC).

If you have any questions, or concerns, or need assistance with implementing the recommendations provided within this report, please contact me at the information provided below.

Sincerely,

A handwritten signature in cursive script that reads "Russ Cameron".

Russell Cameron, MPH, REHS
Environmental Health Consultant II
Ph: 1-907-729-5612
Email: rdcameron@anthc.org

EC: Brian Berube, Senior Project Manager, ANTHC
Jason Rutman, Safety Program Manager, ANTHC
Adrien Dirks, Water Operator, City of Saint Paul
Aubrey Wegeleben, City Clerk, City of Saint Paul

Saint Paul

Contact: Adrien Dirks
 Environmental Health & Safety Survey
 Representative: Russ Cameron

No.	Location	Finding	Priority	Recommendation
1.	Wastewater System	Confined space training: At the time of the survey, the water operator has not received any confined space training or equipment. Confined space training and supporting equipment is required anytime a person enters a septic system to “unclog” the tank. Without training, proper equipment, and support the operator risk serious injury or death.	High	For more information about confined space requirements and additional resources please contact ANTHC Safety Program Manager Jason Rutman at jwrutman@anthc.org
2.	Sandy Lane Lift Station	Inadequate ventilation: The ventilation for the Sandy Lane lift station is in disrepair (photo 1). The operator is at risk of exposure to toxic gas without adequate ventilation.	High	Consider repair of the ventilation system.
3.	Wastewater System	Septic pumper truck: The pump transmission on the septic pumper truck is currently not working (photo 2). At this time, the operator has improvised the use of a trash pump to fill the truck's tank. The operator reports the trash pump is not adequate as it can only pump the grey water and not the sludge. The use of a trash pump to pump septic waste puts the operator at increased risk of direct exposure to human waste.	High	Consider repair of the pump transmission or perhaps the purchase of a pumper trailer (pdf attached).
4.	Ellerman heights lift station	Frequent clogging: The operator reports he has to unclog the Ellerman Heights lifts station at least once a week due to wipes.	Moderate	Consider radio advertising on KUHB-FM to ask Saint Paul, residents, to please stop flushing wipes.
5.	Ellerman and Sandy Lane lift stations	Unsafe wet well access: The wet well access ladders for both Ellerman Heights and Sandy Lane have significant corrosion (photos 3, 4).	Moderate	The City of Saint Paul is slated for new lift stations through a grant with Village Safe Water next spring. Only a team trained in confined space with proper equipment should enter the lift station wet wells.



6.	South well	Out of service well: Currently the South Well is not in service. At the time of the survey, the water department was waiting on a new check valve to arrive.	<i>Moderate</i>	Consider repair of the well once the new check valve arrives.
7.	Fredericka - 1	Out of service well: Fredericka 1, needs a new pump installed.	<i>Moderate</i>	Consider repair of the well. In discussion with the operator, a crane, and personnel will be needed to pull the well and install the new pump.
8.	Fredericka -4	Out of service well: Fredericka 4 was placed out of service due to high turbidity approximately 20 years ago. At this time there is no plan to re-open the well. At this time the well is not sealed and has the potential to introduce contamination into the drinking water aquifer.	<i>Moderate</i>	Consider having an assessment done of the well.
9.	Fredericka-3	Out of service well: The pump was pulled in 2020 from Fredericka-3 according to notes left in the pump house. It is believed Fredericka-3 began to intake scoria at the time it was pulled.	<i>Moderate</i>	Consider having an assessment done of the well.
10.	Water treatment plant	Corroding water plant: The water treatment plant is corroding at an accelerated rate (photo 5). The accelerated corrosion can potentially lead to component failure and disruption of water service.	<i>Moderate</i>	Consider moving the chlorine induction system to a separate room from the main facility to slow the rate of corrosion at the water treatment plant.
11.	Water storage tanks	Missing Screens: The vent screens are missing from the top of both A (photo 6) and B water tanks. Birds and other animals may potentially gain access to the water tanks resulting in contaminated water.	<i>Moderate</i>	Consider repair to the vents. Fall protection should be used when working on the sloped tank roof.
12.	Landfill	Septage waste area: The fence to the septage waste area was in disrepair at the time of the survey. Without a fenced and locked septage waste area, children or animals could accidentally come in contact with human waste.	<i>Moderate</i>	Consider Installing appropriate fencing, gate, and lock for the septage waste area. The landfill may accept septage waste if it is deposited into separate trenches, less than 4' in depth, and the trench is maintained not to overflow. If not already being done, consider adding hydrated lime or quicklime in dry form approximately 25-30 pounds per 1000 gallons of sludge. ANTHC Environmental Health can help locate the lime for purchase.



[Photo Log](#)



Ventilation pipe repaired with tape



Trash pump used due to broken pump on the truck

Photo 1: The Sandy lane lift station dry well.

Photo 2: Trash pump used for septic pumping.

[Photo Log](#)



Photo 3: The Ellerman Heights wet well.



Photo 4: The Sandy Lane wet well.

Photo Log



Photo 5: The water treatment plant.

Photo 6: Top of storage tank A.



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High volume septic, waste oil, cooking grease and institutional fluid handling contracts require a different level of quality and commitment from your pump manufacturer. Wastecorp can help with our Super Duty brand TVP-1200 Series vacuum trailers. With a 1200 gallon tank and high performance vacuum suction power which rivals the large pump out trucks, you'll be getting more pumping contracts while spending a fraction on the highest quality equipment to get the job done day-after-day.

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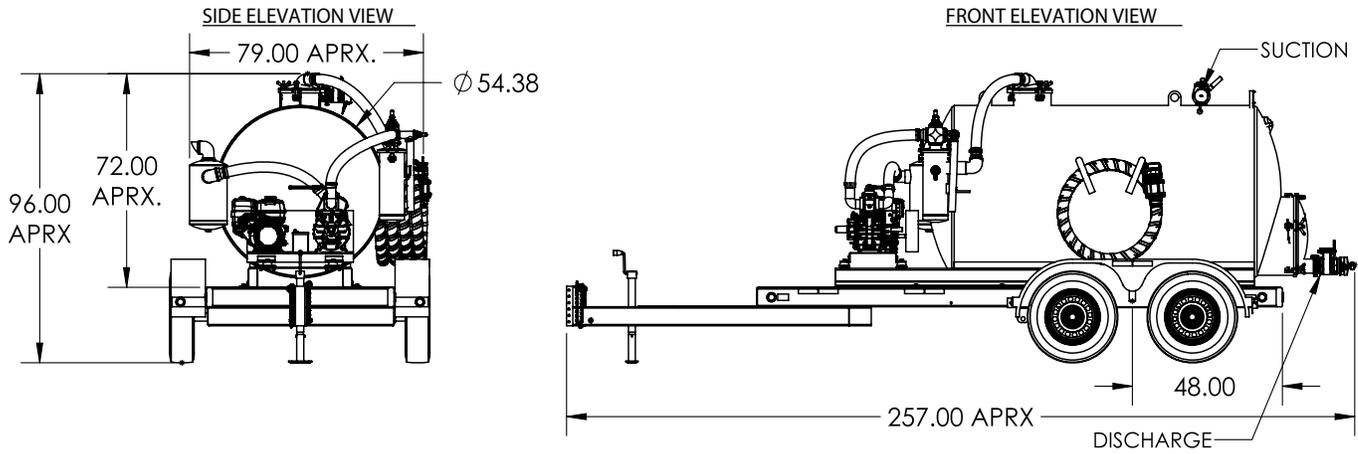
THE SUPER DUTY IS MADE FOR:

- Septic waste pumping
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TVP-1200 SPECIFICATIONS

Model	TVP-1200-DT(127)	TVP-1200-DT(230)	TVP-1200-DT(363)	
Vacuum/Pressure	127CFM	230 CFM	363 CFM	
Typical applications	Grease Trap & Portable Toilets	Septic Tank / Sump Pits /	Heavy Drilling fluids	
Part Number	65922-05	65922-10	65922-00	
Tank				
Capacity	1200 US Gallons			
Base Frame	Heavy Duty Fabricated Steel			
Tank Material	A36 Carbon Steel			
Sight Eyes	(2) 5" Glass			
Manway	25" Rear Mount Swing Door			
Hose Rack	(2) Hooks on rear of tank			
Engine				
Gas Engine	9 hp Honda/Kohler Gas E-Start	14 hp Honda/Kohler Gas E-Start	24 hp Honda/Kohler Gas E-Start	
Optional Engine	10 hp Kohler Diesel E-Start	17 hp Kohler Diesel E-Start	24 hp Kohler/Deutz Diesel E-Start	
Power Transmission	Belt Driven			
Trailer				
Trailer Specs	Galvanized, tandem axle, e-brakes, jack stand, LED lighting, alum. checker plate deck			
Hitch	Select: 2" Ball, 2 5/16" ball, 3" Pintle			
Wheels	Galvanized spoke			
Tires	ST235/80R16			
Jackstand	7,000 lbs			
Trailer and brake supply	DOT approved 7 way connector			
Lighting System	DOT approved LED			
Safety Chains	DOT approved zinc-plated w/two clevis grab hooks			
Hoses				
Suction Hose	30 ft Non-Collapsible with Alum. Camlock Fittings (longer lengths available)			
Discharge Hose	10 ft Layflat with Alum. Camlock Fittings (longer lengths available)			
Port Sizes				
	2" Valve with Camlock	3" Lever Valve with Camlock	3" Lever Valve with Camlock	3" Lever Valve with Camlock
Off-Load Port Size	3" Lever Valve with Camlock	4" Lever Valve with Camlock	4" Lever Valve with Camlocks	4" Lever Valve with Camlocks
Suction Vac Wand:	5 ft PVC Pipe with 90° Camlock			
Overall (Approximate)				
Dry Weight (lb):	4,800 lbs			
Loaded	13,900 lbs			
GVWR	14,000 lbs			
Trailer Dimensions	19'2"L x 6'10" W x 96"H,			
Underclearance	12" at axle			

TVP-1200 Dimensions



BUILD OPTIONS

CFM Vacuum Power

CFM or cubic feet per minute relates to vacuum suction power. Wastecorp offers several CFM options. Our industry leading standard CFM is 127, 230 CFM, 350 CFM and 512 CFM are also available. We also offer blower packages for hydro excavation,

127 CFM

230 CFM

350 CFM

512 CFM

Engine Options

Wastecorp offers electric, gas and diesel power options for Super Duty Vacuum Systems.

Gas

Electric

Diesel

Tank Options

Select either waste only tanks or waste plus water compartments.



Wastecorp uses premium steel tanks that stand the test of time. We offer dual compartment waste and water or external polyethylene water tanks (your choice)

Jetter Options

Expand the capabilities of your system with both waste collection and water jetting function. Jetters are ideal for cleaning catch basins, sewer pipes and general facilities maintenance.



Several jetter packages available to meet your job site needs.

Optional Equipment



Rear Manway

Designed to allow for easy maintenance and cleaning of tank interior.



Work Light Package

Bright LED's for working in dark conditions. Beacon light and traffic diversion arrows (DOT compliant) available.



Storage Options

Fender Mounted locking storage compartment. Various lockable storage options to help deter theft and vandalism.



Tank Ladder

Allows easier access to top of the tank.



Tank Mounted Camera System

Reverse assistance wired into the cab of your truck



Blower Package

If you're pumping thick/dry fluids or longer suction distances, then you need a high cfm blower package. Wastecorp technical support can help you select the right package

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