

florida Warte Environmental Septime District Tampa

January 8, 1999

Mr. Roger Evans Florida Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619 Telexed; (813)-744-6125

Re: Florida Waste Environmental Services, Inc.

Used-Oil Processing Operating Application #76517-HO06-001

Request for 3rd Extension—1 year

Dear Mr. Evans:

Florida Waste Environmental Services, Inc. (d.b.a. as STAR*BD Environmental) requests an extension in submitting responses to your *First Notice of Deficiency* dated February 13, 1998 until successful completion of the aboveground storage tank farm when final as-built construction plans will be available for permit submittal purposes. FWES has obtained numerous Hillsborough County Planning & Development (Building) Permits, SWFWMD Permit, EPA Industrial Stormwater Permit, Fire Marshall Permit, and Hillsborough County Environmental Protection Commission (EPC) plans approval for construction of an aboveground Storage Tank Farm pursuant *FAC Chapter 62-762 & NFPA 30*. The proposed construction plans as approved by the Hillsborough County EPC have been submitted to the FDEP in the first submittal. However, the *final as-builts* may vary pending on new regulatory upgrades required for storage tanks and the final inspection punch list by the County.

FWES is not processing or intends to process used-oil at this time but is still operating as a Used-Oil and Oil Filter Transporter and Transfer Facility. FWES intends to dedicate one 20,000-gallon storage tank for used-oil storage without treatment. Two (2) tanks are to be dedicated for Petroleum Contact Water storage and the remaining three tanks for oily-water storage particularly (bilge water) from the marine industry.

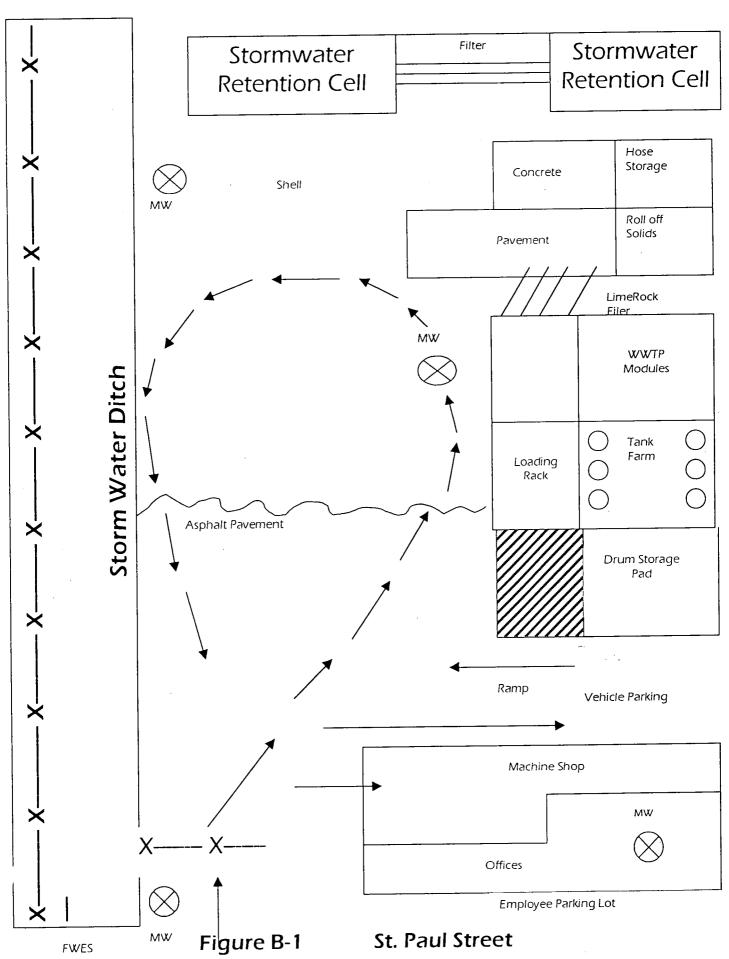
A portable-pilot industrial wastewater treatment system is being developed by STAR*BD Environmental for three DOD petroleum tank farm projects at military bases in 1999 under their site-specific NPDES permits. STAR*BD Environmental will use this opportunity to finalize the process design construction plans as requested in the Notice of Deficiency.

Enclosed are 8 1/2 x 11" page site diagrams (not to scale) to conceptualize locations and process flow. Final blueprint plans will be submitted after Storage Tank Farm construction is completed and the process schematic details are finalized. The heated oil tank has been disallowed by the Fire Marshall due to the presence of flammable substances in the waste stream unless constructed within a building containment. A water main will be available on St. Paul Street in 150 days to allow connection satisfying the Fire Marshall's water demand requirements pursuant NFPA 30/70 Codes.

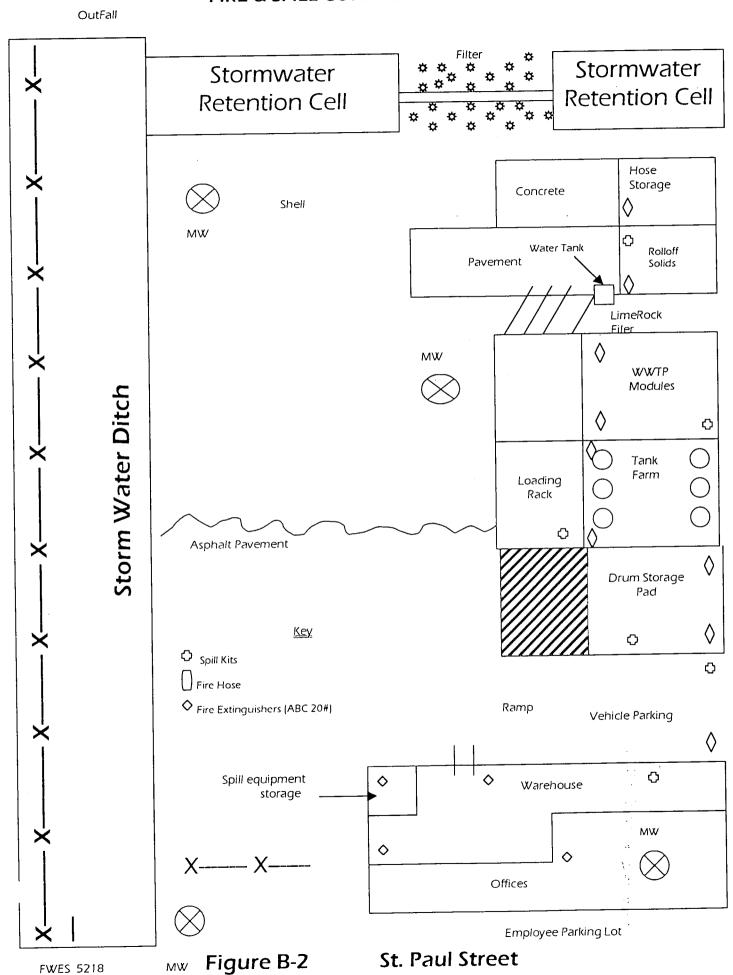
Sincerely, Sharksma Fran Braaksma, CEO

Thomas A. Brislin, Environmental Engineer

OutFall

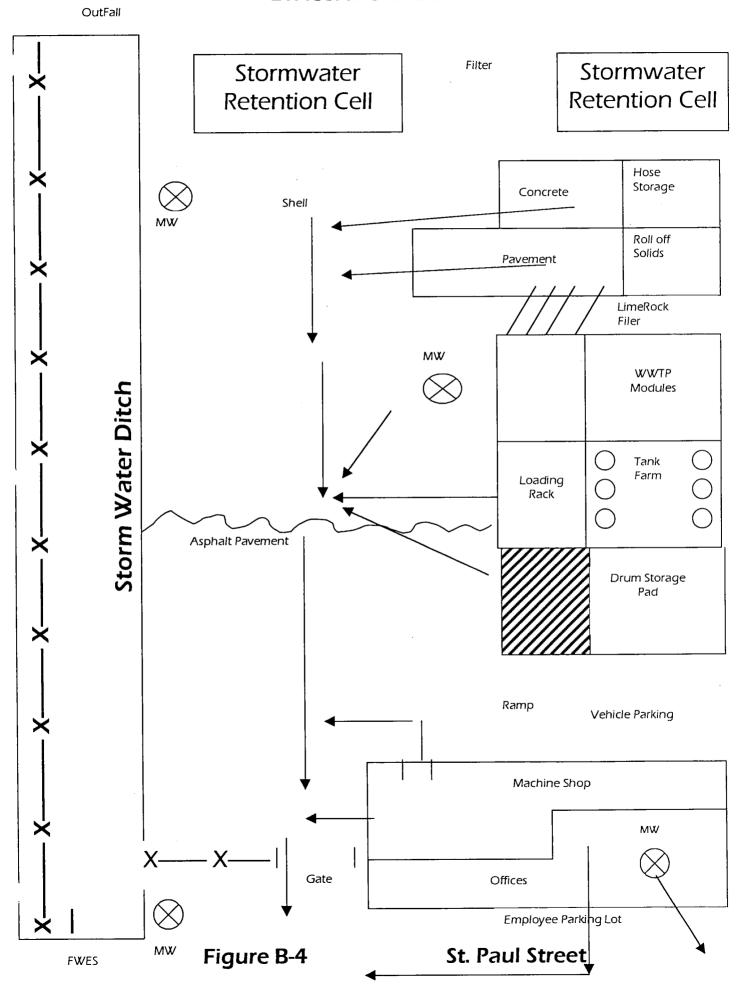


FIRE & SPILL CONTROL EQUIPMENT



STORM WATER DRAINAGE CONTROL BARRIERS OutFall **Boom Choke Points** Filter Stormwater Stormwater Retention Cell Retention Cell Hose Storage Concrete Shell Pavement Rolloff Solids LimeRock Filer MW X WWTP Modules Storm Water Ditch Stormwater/Spill Containment (1,500 gallon oil/water separator) Loading X Tank Rack Farm Asphalt Pavement × Drum Storage Pad Secondary Containment <u>Key</u> Ramp Boom Choke Point Vehicle Parking × Stormwater Flow Warehouse × Offices Employee Parking Lot St. Paul Street Figure B-3 MW FWES 5218

EVACUATION ROUTES



2.2.2 Process System Specifications

Figure 2-3 depicts the General Flow Diagram explained below:

Grit Separation Module (M-1)

The Grit Separation Module will have the capacity of flow throughput of approximately 100 GPM (One hundred gallons per minute.) The reason for this higher flow than the operating system throughput of Thirty (30) gallons per minute(gpm) is to facilitate the off-loading of trucks where a 6,000-gallon tanker will be able to be off-loaded within on hour. A smaller system of 30 gpm would require 3.3 hours to offload. The 100 gpm. Grit Separation will allow a faster turnaround for the tanker fleet and thus will be able to haul more in a typical day and spend less time waiting to unload.

Following the Grit Separation Module, tank storage of 40,000 gallons (2-20,000 gallon tanks). Initially, this should be sufficient. However, it may be required in the future to add additional oily/water storage tanks.

These storage tanks have a dual purpose besides being holding tanks to supply the oil-water separation system. These tanks can be heated to 180°F with acid for emulsification breaking. The oil will be allowed to separate within these tanks initially and with the appropriate controls, the bulk oil may be drawn from the tops and transferred directly to the oil storage tank. While the water will be transferred through the oily-water separation system.

The Grit Separation System will have the capacity to filter to 120 mesh —finer filtration is available. However, the filtered solids tend to be wetter with the finer filtration. (Finer particles and silts tend to hold onto more water making the filtered solids wetter.)

When filtering heavy oils and solids, the finer filtration elements tend to blind and don't allow the water and oil to pass through the elements.

Oil-Water Separation Module (M-2)

The oily-water will be received from the oil-water storage tanks into the oil-water separation level-control quiet-tank.

The level-control quiet-tank will supply the oil-water separation system with oily-water in the event the level-control quiet-tank is filled with oil. The separation system will shut down and the oil will be transferred to the oil storage tanks until sufficient water enters the level-control quiet-tank from the oily-water storage tanks at which point the oil-water separation system will initiate operations.

From the level-control quiet-tank, the oily-water enters the primary separator. The oil removed in the primary separator is transferred to the primary separator oil accumulator. The water is transferred to the dissolved air floatation. The water enters dissolved air floatation through the scrubbing chamber where the water is mixed with air. The air bubbles, oil and water exit through the coalescing chamber. The oil and air bubbles are transferred to the DAF accumulator.

Fine Particulate & Suspended Solids Filtration Module (M-3)

The water enters this filtration module from the first stage water storage tanks. The water may also enter this filtration system directly from the oil-water storage tanks. High levels of suspended solids and fine particulate may cause high COD and BOD levels. The water may be returned to the oil-water separation system, transferred to the carbon system or may be discharged from this module. This filtration module may also be used for recycling machine coolants and other products.

4. Organic Removal Module (M-4)

The water may enter this module from the 1st stage water storage tanks or from the fine particulate and suspended solids filtration system. This modules primary purpose is to absorb any dissolved hydrocarbons. Absorption of other elements and compounds will also occur.

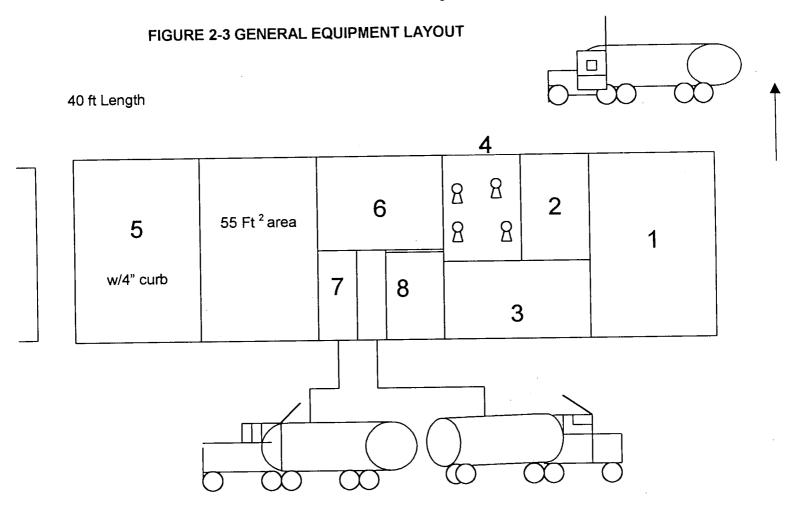
The water from this module will be transferred to discharge or to the clean water holding tanks. The clean water holding tanks will be the last stage in the system where final water treatment may be accomplished.

5. Oil Reclaim Module (M-5)

The oil pumped from oil-water separation system (M2) will be stored in T-3 and T-4 oil storage tanks. If necessary, these tanks can be heated to 180°F by acid addition and propane heaters utilized emulsion ability.

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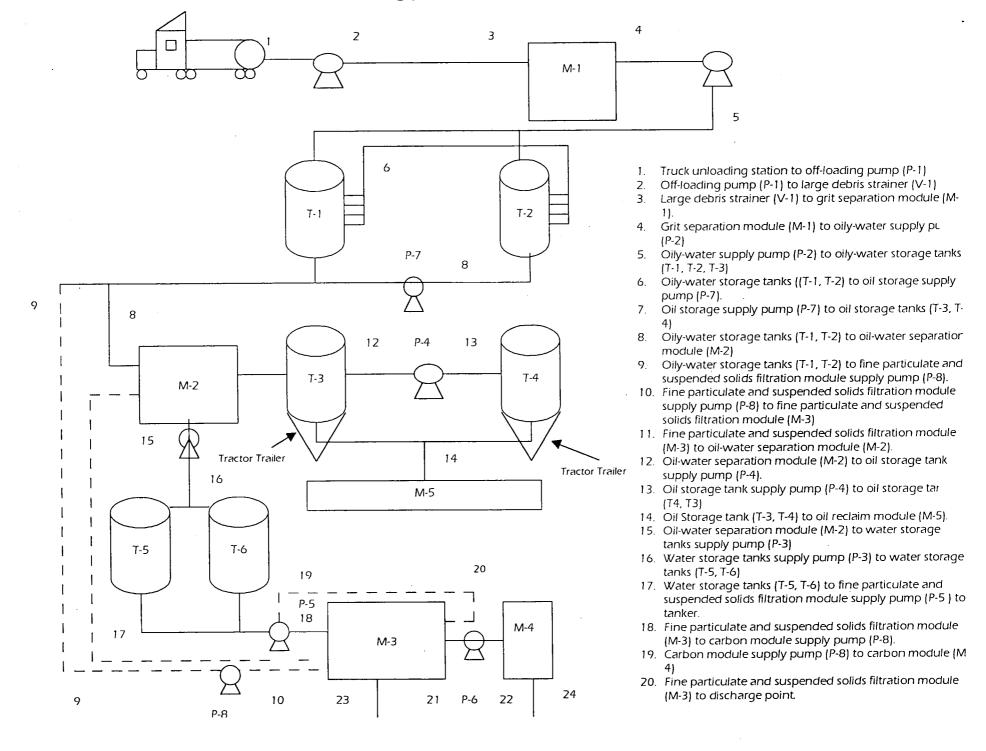


The overall size is only an initial guideline. Actual unit may vary in length after pilot plant trial.

General Flow Diagram

	Grit Separation Module Level-Control Quiet-Tank	P-1 P-2	Truck-Off Loading Pump Oily-Water Supply Pump
	Oil-Water Separation Module		
	•	P-3	Water Storage Tank Supply Pump
	Pumps	P-4	Oil Storage Tank Supply Pump
	Filtration	P-5	Fine Particulate and Suspended Solids
6.	Organics Removal System		Filtration Module Supply Pump
7.	Water Storage	P-6	Carbon Module Supply Pump
8.	Oil Storage	P-7	Oil Storage Supply Pump
9.	Solids Container (roll-off)	P-8	Fine Particulate and Supply Pump to
			Tanker

GENERAL FLOW DIAGRAM



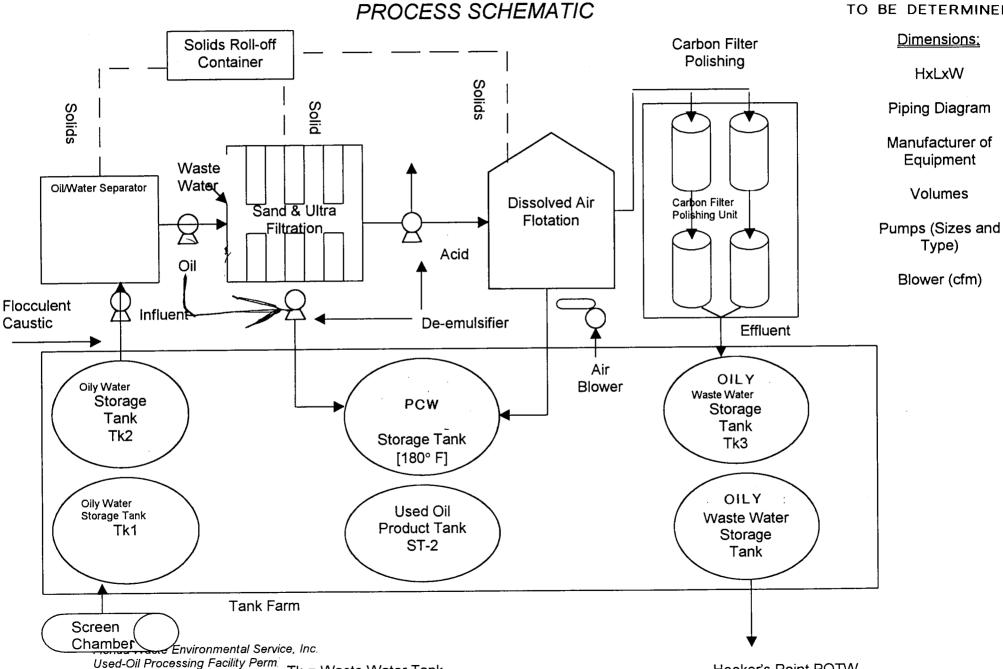
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PILOT PLANT

TO BE DETERMINED

Hooker's Point POTW



Tk = Waste Water Tank