

Webb County Utilities
Request for Proposals
“Influent Screw Screen Rehabilitation”

- A.) Disconnect electrical power, dismantle and dispose of the currently installed WasteTech screw screen.
- B.) Clean the existing screen channel of debris and rags and prep for installation of a new WasteTech screen.
- C.) Install and mount the WasteTech screen. See detailed screen description/proposal from WasteTech, div. of Kuster’s Water below.
- D.) Reconnect all electrical power and control lines from the existing control panel to the new screen.
- E.) Startup and commission the new screen.
- F.) Provide O&M manuals.
- G.) Provide operator training and maintenance instructions.
- H.) Delivery to be no more than 16 weeks from receipt of signed Purchase Order.
- I.) Substantial completion is to be no more than 3 weeks after delivery of screen to jobsite.

ITEM SPECIFICATIONS:

Screw Screen:

For the design and supply FOB Spartanburg, SC, One (1) Waste Tech/KZC Model ICSS6/10 in 316Stainless Steel

Screen Design Parameters:

Peak flow: 4.5 mgd

Channel width: 2.5 ft.

Channel depth: 10.0 ft.

Screenings discharge height: 6.6 ft. (above floor level)

Size of clear opening: 10 mm nominal perforation
Angle of screen: 35° from horizontal
Wash Water: 15 – 20 gpm @ 50 psig

To include the following:

- Semi-cylindrical stationary perforated screen basket – 316 stainless steel
- 3/8" (10 mm) nominal perforated openings with upper support ring– 316 stainless steel
- Rubber/Neoprene seals for screen at 350 incline
- 12" nominal diameter dewatering screw to transport and dewater the screen material – 316 stainless steel
- Brush attached to spiral with stainless steel fasteners
- Pivoting support stand – 316 stainless steel
- Support plate flange – 316 stainless steel
- Upper and lower spiral screw replaceable wear bars – high tensile steel
- Compaction zone – integral part of the screenings screw conveyor and transport tube design – 316 stainless steel
- 2.0 hp 1800 rpm TEFC motor with gear reducer suitable for use in a Class 1, Div 1, Group D environment
- Automatic spray wash system provided for the screen constructed of 3/4" dia 316 stainless steel piping and flexible reinforced PVC hose with stainless steel spray nozzles
- The dewatering section shall be provided with a ring type flush water header system to ensure flushing of the compaction zone – header design to be oriented to completely wash the full surface of the transport tube drainage area
- Solenoid valves shall be 3/4" bronze body, shall be normally closed and rated for up to 100 psig and 120 vac operation
- Isolation ball valve shall be 3/4" bronze, with stainless steel ball and stem and Teflon seats.
- 3/4" bronze strainer, 80-mesh.
- Fasteners – 316 stainless steel
- Anchor bolts – 316 stainless steel

Controls:

- One (1) Float switch