

environmental **EI²**
improvements inc.

P.O. Box 70
Buda, TX 78610
512/295-3733
Fax: 512/295-4028

Quotation
Clarifier Drive replacement

May 05, 2025

To: City of Boerne

Attn: Mr. Johnathan Gunnink

PROJECT: Replace one Envirex® Type H Tow-Bro® H40 clarifier drive.

Environmental Improvements is please to offer the removal and installation of one (1) Envirex® Type H center siphon-feed Tow-Bro® clarifier drive.

EQUIPMENT

Equipment to complete the repairs will consist of the following:

- Drive mechanism with micro-switch overload device and shear pin

Electrical controls consist of the two (2) micro-switches (one N.O. and one N.C.) in the drive mechanism overload device housing for high torque alarm and motor shutdown.

Equipment delivery is 10-12 weeks once ordered.

Scope of Work to be performed

1. Remove electrical wiring from drive to beginning bridge.
2. Remove bridge and platform
3. Remove existing Envirex® Tow-Brow® mechanical H40 drive
4. Inspect the basin floor and center column pedestal (notify customer of any deficiencies)
5. If item two is fine, install new Envirex® drive (Field erection will be required)
6. Install bridge and platform
7. Reconnect electrical wiring.
8. Complete a factory required true plane
9. Grout drive
10. Start up system
11. Return clarifier back to operation.

This process should take around 12 days to complete. All work will be completed as per the manufacturer's recommendations

Exceptions and comments

All de-watering and cleaning are done by others.

Any concrete repairs are not included.

Access to site is guaranteed by the owner or his assigned agent.

EI2 is not responsible for damages to soils, grasses, pavement, underground electrical, or piping of any kind due to move in or out of heavy equipment.

All work comes with a (1) one-year warranty from startup date.

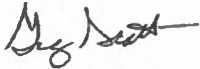
Any additional repairs required for system integrity that falls outside the scope of work described in the proposal will be discussed with the proper facility personnel and agreed upon in writing prior to any work performed.

Price includes the following

- Parts listed above
- Field Service, for four people
- Travel expenses
- Peridium and lodging

Price for service as described above in this proposal: \$ 123,655.47

Thank you for the opportunity to offer our services,



Greg Scott
Service Manager



N19 W23993 Ridgeview Pkwy
Waukesha, WI 53188
Phone: 262-547-0141
Fax: 262-547-4120

Sole Source Letter

To: Greg Scott
Company: Environmental Improvements Inc.
Tel: 512-295-3733
Email: gscott@ei2water.com

Date: 4/22/2025
From: Desiree Barton
Tel: 262-521-8257

This document is to confirm that Evoqua Water Technologies, LLC is the sole source provider for the clarifier components on quote #02550583 for Boerne TX. Environmental Improvements Inc. is the authorized sales representative and parts provider for Evoqua Water Technologies, LLC.

If I can be of further assistance or should you have any questions, please feel free to contact me.

Sincerely,

Desiree Barton

Desiree Barton

Evoqua Water Technologies

desiree.barton@evoqua.com

Service Type: Site Visit

Technicians: 449 Greg Scott

Trucks: 403 Greg S

Customer

Company: **Boerne, City of**
Contact: Roy Burgess
Address: PO Box 1677
City,State,Zip: Boerne, TX 78006
Location: **Boerne WWTRC**

Customer#: COB020
Phone: 830-248-1538
Email:

Description of Work

I arrived around 10 am, met up with Johnathan and then headed over to the clarifiers. Once I pulled up I watched the drive run for a few minutes before getting out of the truck. I saw the drive pause momentarily and then return to rotating. This is not normal and is usually the result of worn lower bearings.

We walked up on to the clarifier and watched it run from the bridge. We witnessed the same scenario again. the unit paused in a random spot.

The clarifier has three gearboxes, primary secondary and the turntable.the turntable is the largest and the lowest unit. This unit is showing signs of premature wear just like the other clarifer. The customer mentioned random over torques, that is a sign that the lower bearings are so worn that they bunch up on one side and cause the pausing that we see. The next thing that will happen is the bearings will get so bunched up that it will not turn.

I would recommend getting both units replaced soon to prevent down time.

Comments

Printed Name: Jonathan Gunnink

Service	Parts	Tax	Discount	Travel	Total
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00