

Date: January 10, 2024
To: Joe Trueblood, Utility Superintendent
From: Bill Swearingen, Operations Supervisor
Subject: Sodium Hypochlorite Bulk Tank Relining

The sodium hypochlorite bulk storage system has been in service for 24 years. The storage tanks are drained, inspected, and cleaned every two years and have required minimal maintenance. Unfortunately, operations staff are starting to see corrosion of the tank fittings resulting in chemical leakage at each flange.

After an onsite assessment, Fiberglass Solutions LLC provided a recommendation and comprehensive quote that includes:

- Relining of one tank- this work is highly recommended to extend the working life of each tank.
- Replacement fittings- fittings are corroded and need replacement.
- Installation of a side manway for safe entry and ease of work

We have 3 bulk tanks, so with this approach we can schedule one tank relining and fitting replacement per year (i.e. 2024, 2025, 2026). The relining and fitting replacement work extends the tank life 7-10 years and we can continue to reline each tank in the future as needed. NOTE: The side manway cost would not be included in future tank relining and fitting replacement work (7-10 year mark). This would decrease overall costs by ~\$3,000, so a future tank relining/fitting replacement cost would be~ \$14,500 per tank.

A new tank's life expectancy is 10-14 and estimated cost of ~\$24K, but that does not include installation/mobilization costs by a mechanical a contractor and requires removal and replacement of all piping and containment wall.

I would like to recommend and ask for approval of the proposal provided by Fiberglass Solutions LLC. The proposal includes all materials, labor, travel, and expenses required to complete the work.

Budget Item (2023): \$150,000.00

Sodium Hypochlorite Chemical Storage System

(1) FRP Bulk Tank Relining with Fittings Replacement	Total:	\$17,507.00
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Quote

Do What's Right
 Take Action & Be Accountable
 Be Generous
 Demonstrate Solution Based Thinking

Date:	December 14, 2023
Valid Until	1/13/2024
Quote #:	694
Customer ID:	

Customer:

Bill Swearingen
 Sheboygan Water Utility
 72 Park Ave,
 Sheboygan, WI 53081
 920-459-3812

Quote/Project Description

Tank Relining Proposal

Item No:	Description	Quantity	Unit Price	Line Total
1.00	Tank Relining - Application of Qty. 1 layer 3 oz/sq. ft. chopped strand mat fiberglass - Application of Qty. 2 layers C veil (corrosion barrier) - Application of resin barrier - Resin to be Derakane Signia 411 with BPO cure (or equal) - Installation of Qty. 1 - 24" 30 psi FRP side Manway - 304 SS bolts and washers for manway - Viton Gasket - includes all compromised flanges to be replaced - Tank sidewalls and floor to be sanded/ground for preparation prior to application of FRP materials - Includes post-cure in accordance with resin manufacturer's recommendations - Tank to be clean and dry prior to arrival - Work to be completed during normal business hours - Work anticipated to take approximately 3.5 - 4.5 days - Work to be completed by confined space certified technicians - Work includes all required safety equipment for confined space entry - Includes all materials, labor, travel and expenses	1.00	\$17,507.00	\$17,507.00

Subtotal	\$17,507.00
Sales Tax (5.5%)	
Total	\$17,507.00

Special Notes and Instructions

Once signed, please email it to the provided address.

Standard payment terms are 30% down payment ARO with remainder due N30 upon completion.

Please note we only cover sales tax for the State of Wisconsin. If the job is completed outside of the State of Wisconsin, the Customer will be responsible for paying the Use Tax if they are not sales tax exempt.

Above information is not an invoice and only an estimate of services/goods described above.
 Payment will be collected in prior to provision of services/goods described in this quote.

Please confirm your acceptance of this quote by signing this document

Signature _____
 Print Name _____
 Date _____

If you have any questions concerning this quote, please contact Ben Bertram at 920-217-3965.

Thank you for your business!