



**Chemical Costing Options for:**  
**Durham County Utilities Division**  
**Fiscal Year 2018-19**  
**April 4<sup>th</sup>, 2018**

## *Technology for a cleaner environment*

### **Proposal:**

Source Technologies LLC is a full service provider of our chemistries, tanks, pumps, and sulfide monitoring equipment.

To save money on the price of Hydrogen Peroxide, the current double-walled bulk tanks will be retrofitted using stainless steel fill-pipes and cleaning out the interior with a Nitric acid flush. This will also save on cost and the hassle of trying to move out the existing tanks and replacing with new ones. Non-bulk price of hydrogen peroxide 50% is currently \$6.00 per gallon. This proposal assumes the re-use of the existing bulk tanks and a reduction in price to \$5.15 per gallon. If the Utility prefers to own all of the equipment on site, an itemized proposal can be submitted.

Source Technologies will monitor H<sub>2</sub>S levels periodically via Odalog® H<sub>2</sub>S Gas Logger. Durham County Utilities employees will not have to interact with the chemistry or worry about dosing ratios, but will be asked to report any issues directly to a Source employee.

Durham County Utilities will be responsible for providing 110v power for the chemical pumps.

Source Technologies STX and VSP Catalytic processes are scalable; daily costs can be reduced or increased based on desired results. All costs below are based on keeping peaks under OSHA personal exposure limits and to reflect the results of the pilot study.

**Slater Lift Station:** 130,000 gallons per day treated

**1 GPD STX @ \$24 per gallon**

**5 GPD H<sub>2</sub>O<sub>2</sub> 50% @ \$5.15 per gallon      Daily cost of: \$49.75**

**\*\*Assumptions:** 365 days of treatment / year (12 months) with an estimated annual cost of: **\$18,158.75**

**Stirrup Iron Lift Station:** 1,140,000 gallons per day treated

**5 GPD STX @ \$24 per gallon**

**30 GPD H<sub>2</sub>O<sub>2</sub> 50% @ \$5.15 per gallon      Daily cost of: \$274.50**

**\*\*Assumptions:** 365 days of treatment / year (12 months) with an estimated annual cost of: **\$100,192.50**

**Page Point Lift Station:** 20,000 gallons per day treated

**.5 GPD STX @ \$24 per gallon**

**3 GPD H2O2 50% @ \$5.15 per gallon      Daily cost of: \$27.45**

**\*\*Assumptions: 365 days of treatment / year (12 months) with an estimated annual cost of: \$10,019.25**

**Combined Yearly Total: \$128,370.50**

Any questions or concerns regarding this study and proposal can be addressed to

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***NOTICE TO PROCEED:***

*April 4<sup>th</sup>, 2018*

***Durham County Utilities Division  
Agreement to install STX Systems***

***Note: Price adjustments from the distributor of STX, and H2O2 50% will be passed on to the customer at the time of order. Price guarantees are awarded annually and the costs quoted within this proposal are guaranteed for 6 months from this date. This proposal is valid for 60 days.***

***Approval to Proceed by***

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***Print***

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***Signature of Authorized Agent    Date***