EVOQUA WATER TECHNOLOGIES Maintenance Report

EVSS Scrubber

Customer Name: Lexington,KY.				
Date: 6/4/20		Location Name:	Town Branch CHLORINE & SO	22
Project #:		Location Address:	301 Jimmie Campbell	
		Location City,ST,Zip:	Lexington,KY.40504	
		TEL:		
		FAX:		
Maintenance By: Lynn R.Decker				
Test Time Start 7am	,	Contact:	Tiffany Rank	

 Test Time ---Start 7am

 Test Time ---End:
 8:30am

 Net Run Time:
 1.5 hours
 Tiffany Rank Cell: 859-327-9993 E-Mail: Contact: Cell:

SYSTEM INSPECTION	OK/Not Ok	COMMENTS	2123
Cl2 Detector Operation	OK		
Fan Operation		no blower	
Recirculation Pump #1 Operation	OK		
Recirculation Pump #2 Operation		N/A	
Caustic Recirculation Pressure	OK	35 psi	
Caustic concentration (%)	OK		
Elapsed Time Meter (Pump #1motor)		N/A	
Elapsed Time Meter (Pump #2 motor)		N/A	
Elapsed Time Meter (fan motor)		N/A	
System Appearance	OK	GOOD	
Inches of Solids in Sump	OK	NONE	

RECIRCULATION PUMPS #1	OK/Not Ok		COMMENTS	MODEL TO SERVE THE
Check coupling and set screws	OK			
Grease shaft support bearing	OK			
Seal Water		psig	gpm	
Grease motor bearings	ОК			
Check amp draw - Stage 1	N/A		N-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Motor FLA:

RECIRCULATION PUMPS #2	OK/Not Ok	COMMENT	S		
Check coupling and set screws					
Grease shaft support bearing					
Seal Water	psi	ig	gpm		
Grease motor bearings					
Check amp draw - Stage 1				Motor FLA:	

FAN	OK/Not Ok	COMMENTS		
Check belt tension (adjust if needed)				
Check belt wear				
Check shaft bearing set screws				
Grease shaft bearings				
Grease motor bearings				
Check amp draw		Motor FLA:		

OTHER COMMENTS:	
	olt flange on discharge side of pump leaking / all flange gaskets
top of the tank are leaking / the leaks are not that bad , bu	
There is a good maintenance plan at the site.	•
	BUILT DATE



September 14, 2020

Tiffany Rank, P.E.
Plant Engineering Manager
Lexington-Fayette Urban County Government
Division of Water Quality
Town Branch WTP
West Hickman WWTP
301 Jimmie Campbell Drive
Lexington, KY 40504

Office: (859) 425-2406 Cell: (859) 327-9993

Email: tiffanyr@lexingtonky.gov

RE: ACID WASH CHLORINE EMERGENCY VAPOR SCRUBBER SERVICE

TOWN BRANCH WTP

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LFUCG)

Evoqua AM Quote No. 2020-410521

Dear Tiffany,

Evoqua Water Technologies would like to provide the following quotation to acid wash the Emergency Vapor Scrubber System (EVSS) at Town Branch WTP. The following is a proposal for caustic disposal and cleaning services for your chlorine scrubber system as well as equipment repair.

EVSS SERVICE AND INSPECTION:

Regular service, pro-active maintenance, and adjustments of critical operating parameters increase equipment efficiency, reduce chemical usage, and result in better odor control. Fouled packing and equipment wear can impede an EVSS scrubber in performing as designed. If packing within scrubbers becomes fouled, and spent Caustic builds up on the sump floor, the EVSS scrubber becomes inefficient and unable to clear and breakdown the Chlorine Gas. The abrasive and corrosive nature of the scrubbing chemistry requires replacement of parts prone to damage, as well as gaskets replaced due to dry rot. The Caustic breaks down and also becomes diminished in its capacity to scrub. Parts and services to bring the system to a fully functioning tool for Lexington are listed below.

SCOPE OF SERVICES:

A description of the proposed Acid Wash service is described below:

- 1) The scrubber is drained of its liquid contents (Caustic). Disposed of by the customer.
- 2) The interior is rinsed with water.
- 3) The sump is filled with water and muriatic acid.
- Recirculation pumps are turned on to allow the acidic solution to clean the internal components for 5-8 hours.
- 5) A complete visual inspection of the scrubber system will be performed.
- 6) Acidic solution is drained. Disposed of by the customer.
- 7) A rinse with water is performed.
- 8) The scrubber is returned to original operating conditions with fresh 20% Caustic.



A description of the proposed equipment repairs is described below:

- 1) All flange and lid gasket replacements
- 2) Replacement seals as needed

West Hickman Requirements

Evoqua requests the following items be handled by the Lexington personnel:

- Disposal of spent acidic solution if solution cannot be returned to gravity wastewater.
- Dispose of spent Caustic solution pH adjustment may be needed.
- · Access to water supply for cleaning.

Notes:

- 1. Evoqua shall supply the acid required to complete the acid wash.
- 2. Additional costs may be incurred if circulation pumps are not operating correctly upon Evoqua's arrival.

PRICING:

Evoqua Water Technologies shall deliver this service to the Town Branch WTP for \$ 24,354.50.

The existing Terms and Conditions are considered part of this proposal and shall prevail. This quote will remain in effect for ninety (90) days from the date of this proposal. These prices do not include <u>any</u> applicable taxes.

Thank you for choosing Evoqua Water Technologies for your odor and disinfection control needs. It is of utmost importance to assure your emergency scrubber systems are working properly and ready to provide reliable protection against chlorine gas leaks.

If you have any questions or need additional information, please contact me at (502) 480-6704 or Kenneth.Lowery@evoqua.com

Sincerely.

Evoqua Water Technologies LLC

Kenneth Lowery

Kenneth Lowery Technical Sales Representative



RE:

ACID WASH CHLORINE EMERGENCY VAPOR SCRUBBER SERVICE

TOWN BRANCH WTP

LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT (LFUCG)

Evoqua AM Quote No. 2020-410521

Evoqua will process your order when we receive acceptance of this proposal, by signing below and returning to MSAftermarket@evoqua.com or fax to: (941) 359-7985.

Company Name:		
This day of	Month	Year
Ву:		
Title:		
P.O.Number		