

Direct Potable Water Reuse Standard Operating Procedure

Wichita Falls, Texas

↗ and E-Coli at 1 J

High Pathogen at CCB Effluent

This SOP supersedes any previous SOP on this topic. Affective on the date signed approved below

INTRODUCTION

This is the Standard Operating Procedures for a high Pathogen result at sample point 2bJ End of Chlorine Contact Basin. A High result is defined as:

Giardia ≥ 7000 cysts/100 milliliter (~~70~~ cysts/L) ^{700 cysts/L}
Cryptosporidium ≥ 948 oocysts/100 milliliter (~~9.48~~ oocysts/L) ^{9.5 oocysts/L}
Total Culturable virus ≥ 22.2 MPN/Liter, and → are virus reported as "MPN"?
E. coli. ≥ 75 CFU/100 mL. ^{concentration} → any the a pathogen level exceeds the applicable action level,

CCB →
1) E. coli ≥ 10000 CFU/

When this occurs, it will result in Convening of the Water Quality Task Force.

OBJECTIVE

The objective of this document is to provide an action plan in the event that a pathogen level exceeds the above stated limits. ^{action level}

All sample will be collected from the Effluent end of the Chlorine Contact Basin. Samples will be collected by filtration according to the directions provided by the lab doing the testing.

All samples will be sent to the independent lab for analysis within the allowed hold time.

The results from the independent lab will be sent to the supervisor who was over the shipping of the samples. The supervisor will pass the results to the Utility Manager and Superintendents of the WTP and WWTP.

If the results exceed the allowable limit stated above and all active parties have been informed the following actions will take place.

- Arrangements will be made to filter a new sample as soon as physically possible.
- The new sample will be shipped over night to the independent lab and a request of expedited testing will be used to provide the fastest turnaround time.
- The City will convene the Water Quality Task Force
- The Water Quality Task force will determine the necessity of shutting down the transfer of water. If they decide to do so the following actions will be started.
- The Utility's Manager will initiate the notification of shut down or his designated appointee.
- The Cypress WTP and the River Road WWTP will coordinate turning off the pumps.

DPR
ACTION
LIST

DJA

I'm trying
to avoid
inflammatory

- Turn the DPR pump controls to the off position so the pump can't auto restart. If utilizing the electric pump reference # 1 image. If utilizing the diesel pump reference image # 2 for motor controls.

or E. coli at 1J?

High Pathogen at Sample CCB Effluent

- The treatment of water from the River Road WWTP to the Cypress TWP will be stopped until new sample results arrive indicating that the Pathogen levels are below the stated values above.
- Once confirmation of the new lab results is made by all parties coordination between the River Road WWTP and the Cypress WTP will be made to start treating the water again.

30 DAYS
LATER
NO
SEE
DAN'S
ACTION
LIST
ITEM #

Associated SOP's:

River Road Shutdown Communication.

Giardia/Cryptosporidium Sampling *EPA 1623 Sampling Procedure*

TCV Sampling *EPA 1615 Total Culturable Virus (TCV) Sampling procedure*

Bacteriological Sampling

Prepared By: _____

Prepared Date: _____

Approved by: _____

Approved Date: _____

Reviewed by: _____

Reviewed Date: _____

Reviewed by: _____

Reviewed Date: _____

Reviewed by: _____

Reviewed Date: _____

*SOP's are to be reviewed and/or updated annually or any time this process has changed.

Sign below and date that you have received and understood this SOP.

Name	Signature	date	Signature	date
David Souilliere			Mark Huggins	
Johnny Chavez			Ron Kendrick	
Katharine DeMars			Rodney Allen	
Paul Blackwell			McIlvanie	
Ian fox			Diana Graham	
Paul Carr			Damon Halper	
Orville Sosebee			Jessie Martin	
Orlando Simpliciano			James Seigler	
Cheryl Chaney				

Image # 1

Electric Pump Off Switch



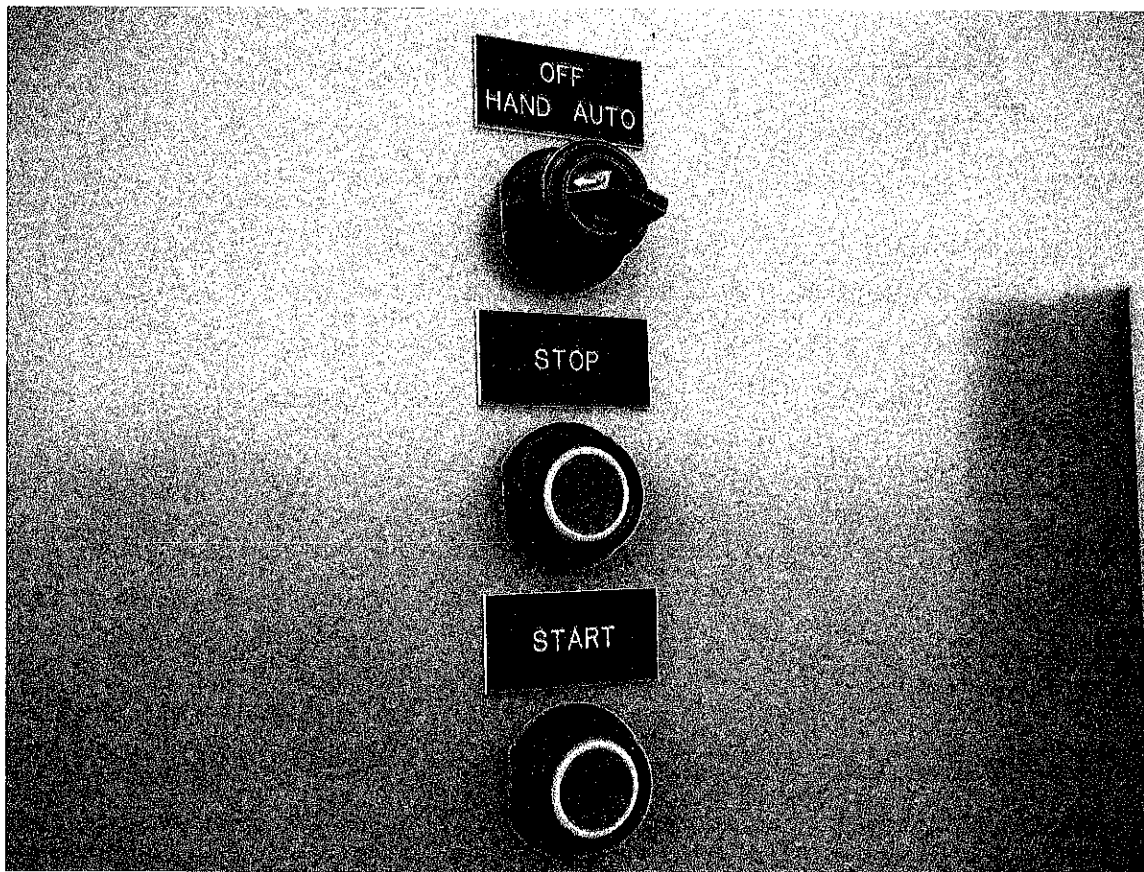


Image # 2
Diesel Pump Off Switch

