## Procedure document Recirculating, Dispensing and Sampling Algae Storage Tank

Procedure number < Procedure number >

#### 1. Procedure summary

This procedure outlines the Recirculating of Storage Tank/Dispensing Algae Storage Tank

#### 1. Related Procedures

Transfer Slurry For Transport

CB-02-007-003

1. Procedure impacts and concerns

Safety Site standard PPE is required.

Quality Improper monitoring of algae storage tank could cause over

filling transport ,sump or lift-station

Delivery Proper documentation needs to be completed for transport.

Environmental Algae material spills will be recorded and cleaned up as soon

as possible.

Compliance With OSHA's Hazardous Waste Operations and

Response, and Hazardous Communication Standard in addition to the Sapphire Energy, Inc. Chemical Hygiene Plan

is required (see 29 CFR 1910.120 and 1200).

1. Responsibilities and owners

Document Owner Manage content and distribution

Process Owner Responsible for content and process validation

Site Manager Responsible for implementation and conformance

Leo Willis Leo Willis Rebecca White

## 2. Process

### 2. Process description

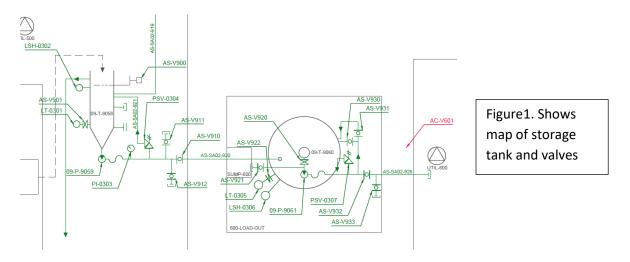
The algae storage tank is made to hold all biomass that has been decanted (dewatered) from the Decanter process building. It holds the decanted biomass until it can be shipped out to the PDU and refined.

### 2. Process diagram: Work Instruction



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First step is to get sample before starting the recirculating process. The reason for taking a sample before recirculating is to see if tank is properly mixing. Sample taken with a 1L sample bottle.



Figure 2. Shows sample port

Step 2 -After sampling start prepping valves to recirculate pump.

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NOTE: Fill sample

with heat.

bottle to ½ or ¾ of a bottle due to product expanding



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2. Process ste

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Are prepped Figure 4 shows starts and stop button. Hit start and let recirculate for 1-hour or a:

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ARE QAQC. When completed bit stop button, and take your second sample from sample port. (See igure 2) Make sure v

AS-V930 Closed own on a Production Log and advise team lead task completed. Samples need to be taken to QAQC IMMEDIATELY.

NOTE: Samples are not to be left out in sun due to product expanding in sample bottle.



Figure 4- Shows Start, Stop, and Emergency Button.

Dispensing Algae Storage Tank

**Prep-Valves** 

Determine where Dispensing

Push Start Button

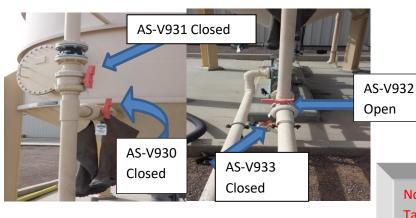


Figure 1 and 2- Shows Prepping of Valves

Note: All valves have Tags and Labels

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Figure 3- Shows Tiger-Flex Hose

Hose end is either put into sump or Transfer Slurry to transport See- SOP-CB-02-007-003. As shown in Figure 3 any product that is spilled or not dispensed into sump can be washed back into sump with water hose.



Figure 4- Shows Start, Stop, and Emergency Button.

Dispensing Storage Tank-Once all valves prepped now you're ready to hit Start Button and Stop Button when done. It is VERY important to document everything down on a Production Log and advise team lead task completed.

## 2.4 Trouble shooting decision tree

If pump will not turn on you will need to notify facilities to Re-set pump immediately.

#### 3. Required documents

## 3. Input documents

**Production Log** 

#### 3. Output documents

**Production Log** 

## 4. Document control

### 4. Revision history

RO – Initial Release- Leo Willis	02/24/2015

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