

## **GeneralMechanics** Consulting Engineers

4022 South Cypress Drive,  
Pompano Beach, Florida 33069  
Phone: (954) 648-9144  
[GMCE001@Gmail.com](mailto:GMCE001@Gmail.com)

**From: Dr. S. E. Beladi, PE**

**September 20, 2020**

**To: Mr. Amit Alon, Banyan Environmental  
Mr. Jim Galloway, &  
Fire and Building Plan Examiner  
City of Pompano Beach  
Plan Review**

**Subject: Banyan Environmental,  
PZ20-12000033  
1550 NW 24<sup>th</sup> Street  
Pompano Beach Florida 33069**

**Dear Mr. Galloway:**

Enclosed please find a short summery response to the plan review committee comments for the above project, as related to the tank room and recycled oil processing.

The detailed descriptions of the operations and others will follow the short summery.

I hope the information will be sufficient and addresses all the concerns cited in the review comments, and a permit for the constructions could be awarded.

Please do not hesitate to contact me at above address, or phone number as well as email: [GMCE001@gmail.com](mailto:GMCE001@gmail.com) if further information or explanations deems necessary.

Sincerely,

**Dr. S. E. Beladi, PE**

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**DRC**

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12/16/20**

## Section I . - Summery response to comments

### **Comments 2(a) NFPA RECOMMENDED PRACTICE FOR COMMISSIONING OF FIRE PROTECTION AND LIFE SAFETY SYSTEMS.**

#### Response 2(a)

The facility is called Banyan Environmental, at any time will not store or process any recycled spent vegetable oils at the processing tanks as specified on the attached plan and following table larger than maximum 64,500 gallons. The material safety sheets of the typical vegetable oils indicate the material shall be labeled as (Diamond) RED- 1.

According to Fire Rating Standards this material will be Flammable “Ignites after considerable preheating. “

The standard Flash points of the oils are rated at 491 Degrees, Fahrenheit, considerably very high temperature at ordinary conditions. Generally, this type of material is classified as combustible materials of class IIIB, in accordance to section (FBC) 307.2 Combustible materials.

The storage amount listed above (64,500) will requires in accordance to tale 307.7(1) will exceed the thresholds of 13,200 gallons and as per 307.7(1)f the storage area with be equipped with Automatics Sprinkler system ( Water or Dry Chemicals) .

Design Documentation shall be provided in conjunctions of the permitting package. (For this area Only).

**END OF SUMMARY**

**DRC**

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**Banyan Environmental,**

**Operation Descriptions and Detail Summary  
of Operations.**

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**Backgrounds: Banyan Environmental (BE),**

, is a Florida cooperation located at 1550 NW 24<sup>th</sup> Street, Pompano Beach Florida.

At a section of the facility (about 3600 square feet building) at this time receives, via trucking systems, spent cooking oils and sperate the water and other constituents and haul-away the recycled oils as means of blended fuel for the purpose of energy productions ( Electrical Production- NOT AT THIS FACILITY).

The facility will transport, the recycled oils to appropriate operation, in or outside of State of Florida for the purpose of energy production.

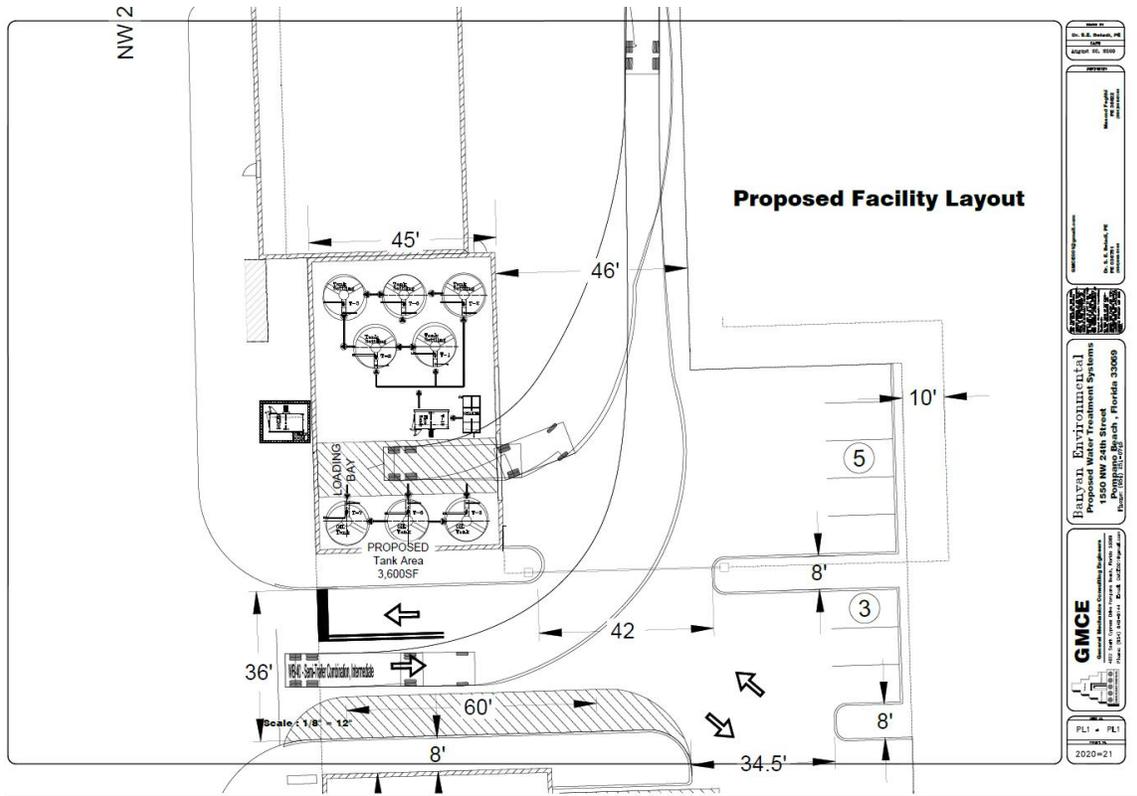
This operation is a part of e facility is part of almost 80,000 square feet of facilities, zoned by Building Department as B-4 and I-1, light industries as general.

The section of the Oil processing, 3600 Sq.Ft. as indicate in the attached sight plan, and following sketch based on the amount and type of storage and process of combustible materials of class IIIB, could be designated in accordance to section (FBC) 307.2 as Combustible Materials storage ( or Processing, with no Occupancy designations).

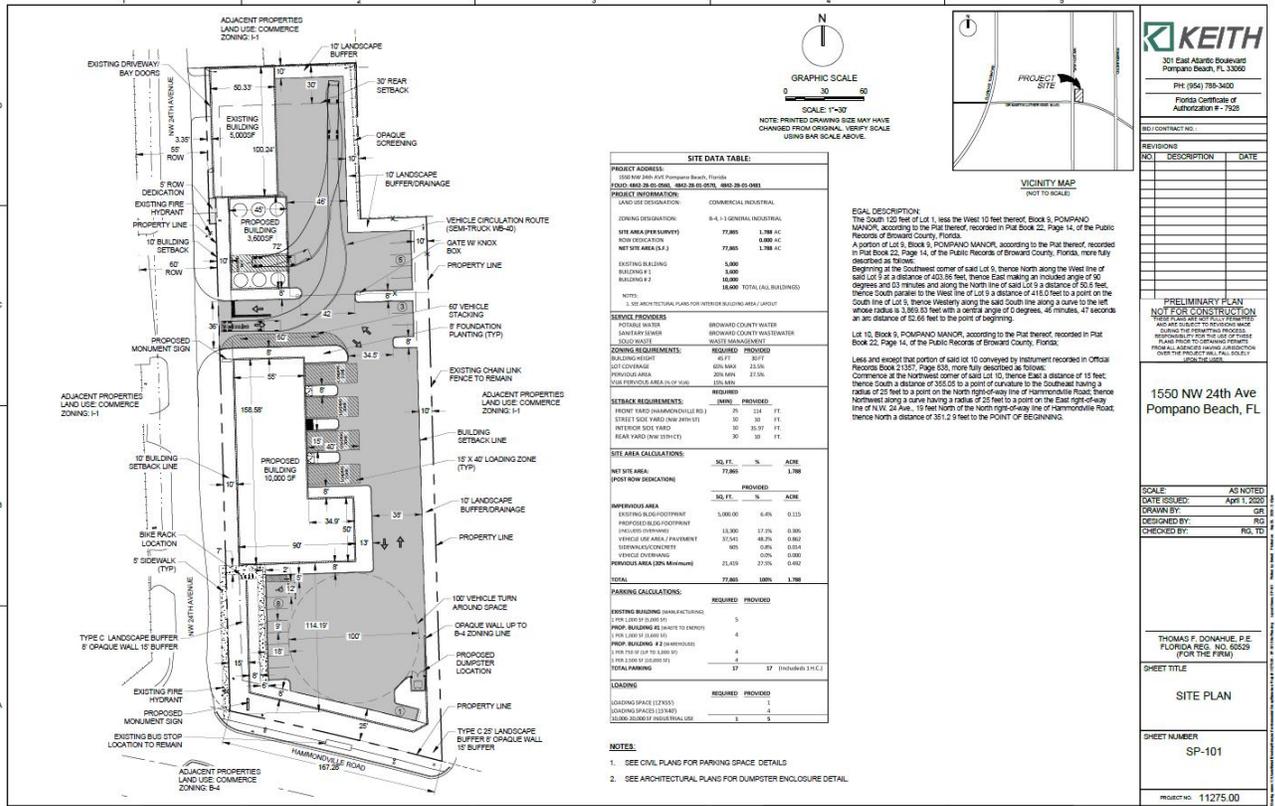
The vegetable oils, in accordance to attached Material Safety Data Sheets (MSDS) are designated as diamond Red 1. With a flash point of 491 degrees of Fahrenheit, that will be in accordance to table 307.7(1) of combustible class IIIB.

The Following table and drawings show the processing tanks and possible storage, at maximum possible storages are as follows: (This condition will practically will not applicable to the operation as the operation it not as assembly lines)

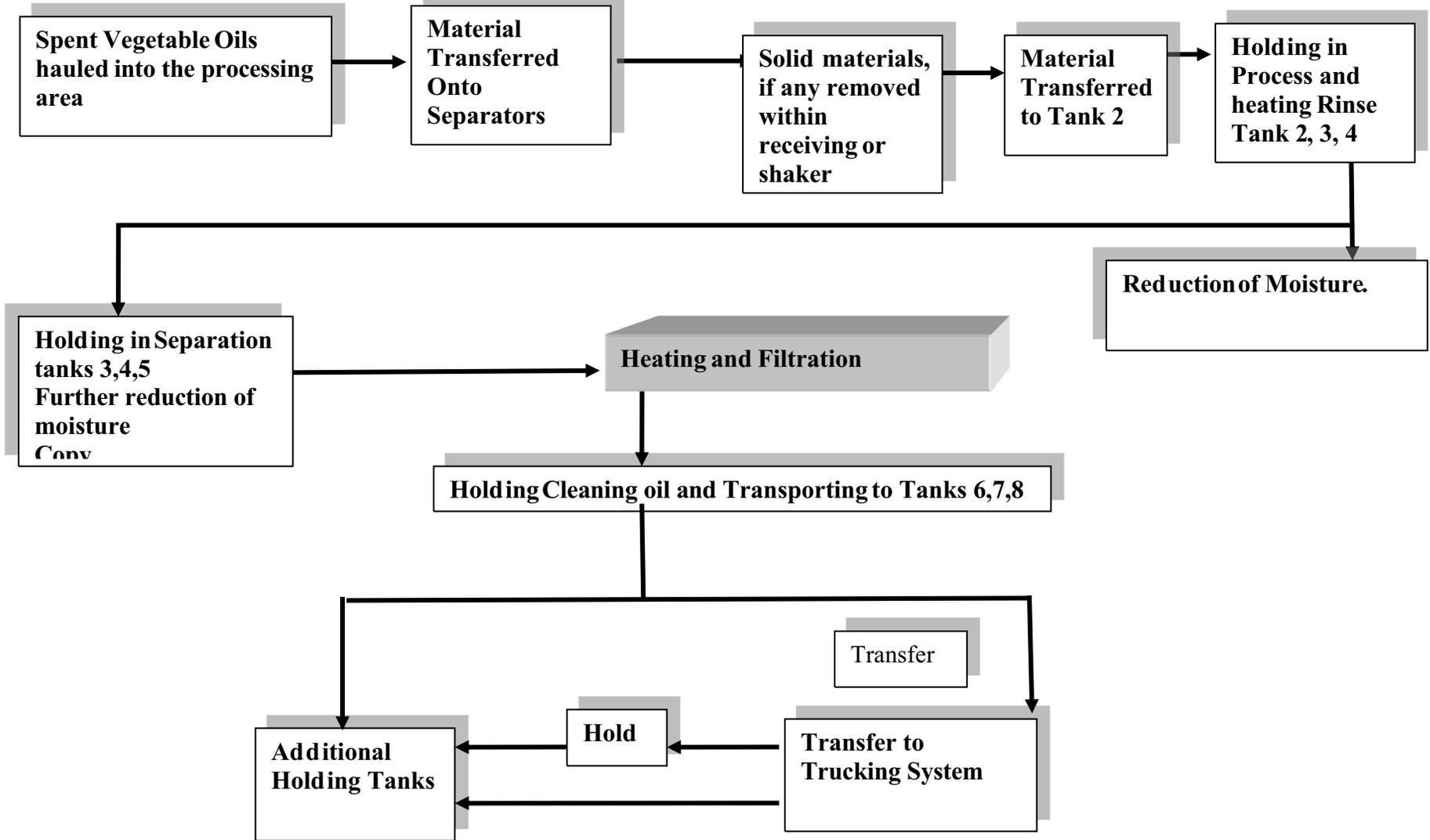
Tank	Capacity
1	7500
2	7500
3	6000
4	8000
5	10,000
6	10,000
7	5500
8	10000



The general Layout of Facility are shown in the following pages.



**Operation and Flow Diagrams: The process of operations are listed in the following flow charts.**



**Typical Plant Operations Banyan Recycling Vegetable Oils**