



November 14, 2022

Bheem Kothur, P.E., DEE
Used Oil Permit Coordinator
MS4560 FDEP 2600 Blair Stone Road
Tallahassee, FL 32399-2400
(850) 245-8781
bheem.kothur@floridadep.gov

RE: Response to FDEP 1st Request for Additional Information (RAI) letter dated October 4, 2022
Used Oil and Solid Waste Processing Facility Permit Renewal
Triumvirate Environmental Services, Inc.
EPA ID Number: FLD 981 018 773
Current Operating Permit No.: 77390-011-HO; 77390-012-SO
DEP Application Numbers: 77390-013-HO; 77390-014-SO
Broward County – Hazardous Waste

Dear Bheem Kothur,

Triumvirate Environmental Services, Inc. (TESI) submitted a Used Oil and Material Processing Permit Renewal for the above referenced facility on September 1, 2022. TESI received the First Request for Additional Information (RAI) from the Florida Department of Environmental Protection (FDEP) via emailed letter dated October 4, 2022. TESI's response to the RAI has been submitted in electronic format to HWPP@dep.state.fl.us, with a copy to Bheem.kothur@floridadep.gov.

Each of the items noted in the FDEP's first RAI are addressed below:

- 1. RAI Comment:** *Used Oil Processing Facility Permit Application (DEP Form 62-710.901(6), incorporated in Rule 62-710.800(3), F.A.C. Effective Date: 12/2019), Part I, A. General Information, Item number 1., Page 1 of 9 – Facility marked "X" to indicate a renewal and a modification, which is incorrect. Facility should mark "X" only in renewal. Please update the application to reflect the adjustment.*

TESI Response: *The Used Oil Processing Facility Permit Application, Part I, Section A. General Information, Item 1, Page 1 of 9, has been updated to show "Renewal" as the only marked item. A new Attachment A "Used Oil Processing Facility Permit Application" has been provided as part of this response and is noted as Revision 1.*

- 2. RAI Comment:** *Used Oil Processing Facility Permit Application (Permit Application), Part I, A. General Information, Item number 3. NOTE, page 1 of 9 – On the facilities 8700-12 FL, Florida Notification of Regulated Waste Activity, Item 16, Used Oil and Used Oil Filter Activities, (1) – (8), page 6 of 10, it is*

indicated that the facility is a transporter. Transporters (Subpart E) was not indicated as an applicable subpart on the Permit Application. Please review and revise as appropriate for your facility to include all applicable subparts on your Permit Application. Please review the 8700-12FL form and the Permit Application to assure the two (2) forms are consistent.

TESI Response: The *Used Oil Processing Facility Permit Application, Part I, Section A. General Information, Item 3. NOTE, Page 1 of 9*, has been updated to include “Transporters (Subpart E)” in the list of applicable subparts. A new Attachment A “Used Oil Processing Facility Permit Application” has been provided as part of this response and is noted as Revision 1.

- 3. RAI Comment:** *Used Oil Processing Facility Permit Application, Part I. C. Operating Information, Item number 2. List Applicable EPA Hazardous Waste Codes, Page 3 of 9* – Permit application lists D001, D004 – D0043, however, Form 8700-12FL, Florida Notification of Regulated Waste Activity, Item Number 10, Waste Codes for Federally Regulated Hazardous Wastes, lists additional waste codes. Please review the 8700-12FL form and the Permit Application to assure the two (2) forms are consistent and modify as appropriate.

TESI Response: The *Used Oil Processing Facility Permit Application, Part I, Section C. Operating Information, Item 2, Page 3 of 9*, has been updated. The list of applicable EPA hazardous waste codes has been updated to match the list in form 8700-12FL currently on file. Due to the length of the waste code list, the full list is shown in Attachment A “Used Oil Processing Facility Permit Application”, Section B. Waste Codes, Page 2 of 2. A new Attachment A “Used Oil Processing Facility Permit Application” has been provided as part of this response and is noted as Revision 1.

- 4. RAI Comment:** *Cover Letter dated September 1, 2022, Used Oil and Solid Waste Processing Facility Permit Renewal Application, Item Numbers 8 and 10 (Preparedness and Prevention Plan, and Unit Management Description, respectively), Page 2 of 3; Attachments H & R (Preparedness and Prevention, and Emergency Action & Fire Plan, respectively), Page 1 of 1; Attachments J & M (SPCC Plan, and Unit Management, respectively), Page 1 of 1* – Cover letter Permit Application items 8 and 10, and attachments H, R, J and M are inconsistent. Please review, revise as appropriate.

TESI Response: The permit application outline Item 8 and 10 have been updated to accurately reflect Attachment H, R, J, and M. The revised application outline is shown on Page 7 of this response letter.

- 5. RAI Comment:** *Application Form for a Used Oil Processing Permit, Part II - Certification, Item Number 6, Page 9 of 9* – The Consultant certified as an Initial Certification. This is not an Initial Certification, it is Recertification. Please review and revise as appropriate.

TESI Response: The *Used Oil Processing Facility Permit Application, Part II Certification, Item Number 6, Page 9 of 9*, has been updated. The Recertification field has been selected instead of the Initial Certification field. A new Attachment A “Used Oil Processing Facility Permit Application” has been provided as part of this response and is noted as Revision 1.

- 6. RAI Comment:** *8700-12FL – Florida Notification of Regulated Waste Activity, Used Oil and Hazardous Secondary Material, Item Number 16, Used Oil and Used Oil Filter Activities (Mark “X” and complete all that apply), Item (5), Off-Specification Used Oil Burner, Page 6 of 10* – This activity is not listed on the 8700-12FL form but it is listed on the Permit Application. Please review the 8700-12FL form and the Permit Application to assure the two (2) forms are consistent and revise as appropriate.

TESI Response: The *Used Oil Processing Facility Permit Application, Part I, Section A. General Information, Item 3. NOTE, Page 1 of 9*, has been updated to remove “Burners of off-spec used oil (Subpart G)” from the checked list of applicable subparts. A new Attachment A “Used Oil Processing Facility Permit Application” has been provided as part of this response and is noted as Revision 1.

- 7. RAI Comment:** *Attachment E, Waste Analysis Plan, Table of Contents, Items G through N (G. Hazardous Waste, H. Antifreeze and Coolants (Unless Identify the Tank No.), I. Commercial Chemical Products and Off Specification Products, J. Hazardous Empty Drums, K. Batteries, L. Universal Waste Lamps and Devices, M. Industrial Wastewater and N. Prohibited Waste), Page 2 of 9; Waste Analysis Plan and Material Profiling, Page 7 of 9* – These activities can be performed under Florida Rule 62-737, The Management of Spent Mercury Containing Lamps and Devices Destined for Recycling. Facility is not authorized to perform the above activities by the “Used Oil and Material Processing Permit”. Please update the application to reflect the modification.

TESI Response: Attachment E “Waste Analysis Plan” has been updated to remove Section G through N since these sections are not applicable to the activities authorized by the Used Oil and Material Processing Permit. The sections removed include the following: Section G. Hazardous Waste, Section H. Antifreeze and Coolants, Section I. Commercial Chemical Products and Off Specification Products, Section J. Hazardous Empty Drums, Section K. Batteries, Section L. Universal Waste Lamps and Devices, Section M. Industrial Wastewater, and Section N. Prohibited Waste. A new Attachment E “Waste Analysis Plan” has been provided as part of this response and is noted as Revision 1.

- 8. RAI Comment:** *Attachment J, SPCC Plan, Table 1, Summary of Storage Tanks and Its Locations, Evaluation and Testing, Page 4* – Tanks shall be evaluated, and the re-testing frequency shall be established and implemented in accordance with API Std 653, November 2014, incorporated by reference in subsection 62-762.411(3), F.A.C. Storage tanks shall be evaluated at the time of installation. Evaluations shall be certified by a professional engineer licensed in the State of Florida or

approved by an API Std 653 certified inspector. Non-destructive testing shall be performed by qualified personnel as specified in API Std 650, March 2013, incorporated by reference in subsection 62-672.201(67), F.A.C. and API Std, November 2014. All field erected tanks shall be repaired in accordance with API Std 653, November 2014. Field erected tanks with storage capacities of less than 250,000 gallons may be evaluated in accordance with STI SP001, January 2018, incorporated by reference in subsection 62-782.411(3), F.A.C., in lieu of API Std 653, November 2014. Internal and External inspections of the tanks may be required, to assess the condition of the above ground tanks and determine its suitability for continued service. Therefore, provide copies of the most recent internal and external tank inspections for all tanks listed in the application.

TESI Response: Tank inspections were conducted by DJA Inspection Services, Inc. in December 2019. Copies of the tank inspection reports have been provided in new Attachment V “Tank Inspection Records”.

9. **RAI Comment:** *Attachment K, Closure Plan, B. Closure Plan for Solid Waste Processing Facility, Item number 3. Closure Plan, page 5 of 5* – The closure cost estimate has been reviewed and is approved for an additional amount of \$3,382.50 for a 200 drum increase to the maximum storage capacity of Non-Hazardous Solid Waste Storage Area (see last page, unnumbered, of Attachment K). The revised total amount is \$521,832.63. Please contact Susan Eldredge, in PCAP, Financial Assurance at 850-245-8740 or email: susan.eldredge@floridadep to update the financial assurance mechanism to the approved amount. The financial assurance mechanism must be in place before the Department can deem the Permit Application complete.

TESI Response: The financial assurance mechanism has been updated to reflect the addition of \$3,382.50 for a 200 drum increase to the maximum storage capacity of the Non-Hazardous Solid Waste Storage Area. The updated bond totaling \$521,832.63 is provided in Attachment K. Please note, Triumvirate is the process of changing bonding companies. As a result, a new bond for the required amount has been issued instead of a rider to the bond previously in place. The hard copy of the bond has been mailed to Susan Eldredge.

10. **RAI Comment:** *Used Oil Processing Facility Permit Application, Part I. C. Operating Information, Item Number 9., Page 4 of 9* – Attach a copy of facility’s employee training for used oil management. This attachment should describe the facility’s employee training program. This description should document:
- a) The methods and/or materials used to familiarize employees with all state and federal rules and regulations.
 - b) The method of documenting that employees have been trained to use emergency equipment.
 - c) How the employee education program is updated to address changes in applicable regulations or facility operations.

TESI Response: Employee training was addressed in Attachment L “Training Plan” of the initial submission. Attachment L has been updated to specifically address item 10(a) through 10(c) mentioned above.

- 11. RAI Comment:** *Attachment J, SPCC Plan, Tank Table 1, Product Stored, AST #T4, Used Oil/ Oily Water, Page 4, and Attachment M, Unit Management, Oil Tank Table, Product Stored, AST #T4, Anti-Freeze, Page 3 of 4* – Facility identified in Tank Table 1, AST #T4 as “Used Oil/Oily Water”, Whereas in Attachment M, Oil Tank Table, AST #T4 identified as “Anti-Freeze”. Please review “Product Stored” in AST #T4 in both tank tables and be consistent.

TESI Response: In *Attachment M “Unit Management”, Oil Tank Table, Page 3 of 4*, the Product Stored column for AST #T4 has been updated to “Used Oil/Oily Water”.

- 12. RAI Comment:** *Attachment P, Cylinder Devalve SOP, Compressed Gas Cylinder Devalving, Page 1 of 1* – The requested activities are not authorized in this application, as per Used Oil, Rule 62-710 or Solid Waste, Rule 62-701. Please update the application to reflect the modification.

TESI Response: Attachment P “Cylinder Devalve SOP” has been removed from the permit application since the requested activities are not applicable to the Used Oil and Material Processing Permit.

- 13. RAI Comment:** Please provide us a word document and pdf of the Site Plan and the Tank Table, that can be easily inserted into the renewal permit.

TESI Response: A Word document and a PDF of the Tank Table and of the Site Plan have been provided as an attachment to the response email. These were provided separately to the main PDF of the revised application to allow them to be inserted as requested by FDEP.

- 14. RAI Comment:** Please provide a brief history and description of any environmental enforcement actions taken by the Department, delegated local program, or federal agency against the applicant and provide a history of any reported releases or spills by the applicant within the past five (5) years.

TESI Response: Attachment S of the initial submission included the 5-year compliance history for the site. Attachment S has been updated to include additional clarification on the compliance history and enforcement actions, as well as a statement regarding reported releases or spills within the past five (5) years.

A consolidated PDF of the full permit renewal application has been provided for your review. All sections of the permit renewal application are marked with a revision number and revision date; the revision number of

the initial submittal is "Revision 0". Any attachments or sections of the permit that were revised as part of this first RAI response have been noted as "Revision 1".

If you have any questions or require additional information regarding this permit renewal application, please do not hesitate to contact me at the information shown in the signature block below.

Sincerely,



Richard Barry

Vice President, Environmental, Health & Safety | Triumvirate Environmental, Inc.

200 Inner Belt Road, Somerville, MA 02143

Office: 617-715-8919 | Mobile: 617-799-2511

rbarry@triumvirate.com | www.triumvirate.com

CC: John (Shawn) Lennon, Facility Manager
Kevin Coulon, General Manager – Southeast
Randy Troy, EHS & Transportation Compliance Specialist
Tim Mooney, Chief Operations Officer

Permit Renewal Application Outline (Revision 1)

Used Oil Permit Renewal	
Application Items	Location
1. Used Oil Processing Facility Permit Application (Form 62-710.901(6))	Attachment A
2. Permit renewal fee of \$2,000	Attachment A
3. Brief description of the facility operation	Attachment C
4. Detailed process description	Attachment D
5. Waste Analysis Plan (WAP)	Attachment E
6. Sludge, residue, and byproduct management plan	Attachment F
7. Waste tracking plan	Attachment G
8. Preparedness and prevention plan & Emergency action and fire prevention plan	Attachment H & R
9. Contingency plan	Attachment I
10. SPCC Plan and Unit management	Attachment J & M
11. Employee training	Attachment L
12. Closure plan	Attachment K
13. Used oil processing facility closing cost estimate form (form 62-710.901(7))	Attachment K
14. Photographs of the site	Attachment U
15. Tank inspection records	Attachment V

Solid Waste Permit Renewal	
Application Items	Location
1. Application To Construct, Operate, Or Modify A Waste Processing Facility (Form 62-701.900(4))	Attachment B
2. Permit renewal fee of \$1,000	Attachment B
3. Description of the operation of the facility	Attachment C
4. Site plan, signed and sealed by a professional engineer	Figure 1
5. Boundary survey and legal description of the property	Attachment O
6. Construction plan, including engineering calculations	Attachment N
7. Operation plan	Attachment C
8. Closure plan	Attachment K
9. Contingency plan	Attachment I
10. Financial assurance documentation	Attachment K
11. History and description of any enforcement actions	Attachment S
12. Documentation that the applicant owns the property	Attachment T

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.

029140

029140

VENDOR ID	NAME	PAYMENT NUMBER	CHECK DATE	OUR VOUCHER NUMBER	YOUR VOUCHER NUMBER	DATE	AMOUNT	AMOUNT PAID	DISCOUNT	WRITE-OFF	NET
FLDEP300	Florida Dept. of Environmental Pro	00000000000034301	8/10/2022	0000000000089651	CKR080522	8/5/2022	\$2,000.00	\$2,000.00	\$0.00	\$0.00	\$2,000.00
							\$2,000.00	\$2,000.00	\$0.00	\$0.00	\$2,000.00

COMMENT



53-7023/2113

029140

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.
3701 SW 47TH AVE., STE 109
DAVIE, FL 33314

DATE
8/10/2022

AMOUNT
\$2,000.00

PAY Two Thousand Dollars and 00 Cents

TO THE ORDER OF Florida Dept. of Environmental Protection
Central District
3319 Maguire Blvd., Ste. 232
Orlando FL 32803-3710

William S. Lyarb

⑈029140⑈ ⑆211370231⑆10 1918002368⑈

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.

029141

029141

VENDOR ID	NAME	PAYMENT NUMBER	CHECK DATE				
FLDEP300	Florida Dept. of Environmental Pro	00000000000034302	8/10/2022				
OUR VOUCHER NUMBER	YOUR VOUCHER NUMBER	DATE	AMOUNT	AMOUNT PAID	DISCOUNT	WRITE-OFF	NET
00000000000089652	CKR080522-2	8/5/2022	\$1,000.00	\$1,000.00	\$0.00	\$0.00	\$1,000.00
			\$1,000.00	\$1,000.00	\$0.00	\$0.00	\$1,000.00

COMMENT



53-7023/2113

029141

TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.
3701 SW 47TH AVE., STE 109
DAVIE, FL 33314

DATE
8/10/2022

AMOUNT
\$1,000.00

PAY One Thousand Dollars and 00 Cents

TO THE ORDER OF Florida Dept. of Environmental Protection
Central District
3319 Maguire Blvd., Ste. 232
Orlando FL 32803-3710

William S. Lyarb

⑈029141⑈ ⑆211370231⑆10 1918002368⑈



**Used Oil and Material Processing Facility
Permit Renewal Application**

**Attachment A: Used Oil Processing
Facility Permit Application**

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Initial Application Date: September 1, 2022

Revision #1: November 14, 2022

A. Used Oil Processing Facility Permit Application

The Used Oil Processing Facility Permit Application (Form 62-710.901(6)) is provided at the end of this attachment.

B. Waste Codes

The following is a list of applicable EPA hazardous waste codes referenced from *Used Oil Processing Facility Permit Application, Part I, Section C. Operating Information, Item 2, Page 3 of 9.*

D – Codes	D001, D002, D003, D004, D005, D006, D007, D008, D009, D010, D011, D012, D013, D014, D015, D016, D017, D018, D019, D020, D021, D022, D023, D024, D025, D026, D027, D028, D029, D030, D031, D032, D033, D034, D035, D036, D037, D038, D039, D040, D041, D042, D043
F – Codes	F001, F002, F003, F004, F005, F006, F007, F008, F009, F010, F011, F012, F019, F020, F021, F022, F023, F024, F025, F026, F027, F028, F032, F034, F035, F037, F038, F039
K – Codes	K001, K002, K003, K004, K005, K006, K007, K008, K009, K010, K011, K012, K014, K015, K016, K017, K018, K019, K020, K021, K022, K023, K024, K025, K026, K027, K028, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K043, K044, K045, K046, K047, K048, K049, K050, K051, K052, K060, K061, K062, K064, K065, K066, K069, K071, K073, K083, K084, K085, K086, K087, K088, K090, K091, K093, K094, K095, K096, K097, K098, K099, K126, K131, K132, K136, K141, K142, K143, K144, K145, K147, K148, K149, K150, K151
P – Codes	P001, P002, P003, P004, P005, P006, P007, P008, P009, P010, P011, P012, P013, P014, P015, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036 P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P065, P066, P067, P068, P069, P070, P071, P072, P073, P074, P075, P076, P077, P078, P081, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P118, P119, P120, P121, P122, P123
U – Codes	U001, U002, U003, U004, U005, U006, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U020, U021, U022, U023, U025, U026, U027, U028, U029, U030, U031, U032, U033, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087, U088, U089, U090, U091, U092, U093, U094, U095, UP96, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U134, U135, U136, U137, U138, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U151, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U189, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U205, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U223, U225, U226, U227, U228, U234, U235, U236, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249, U328, U353, U359

USED OIL PROCESSING FACILITY PERMIT APPLICATION

Part I

TO BE COMPLETED BY ALL APPLICANTS (*Please type or print*)

A. General Information

1. New Renewal Modification Date current permit expires 11/19/2022

2. Revision number 1

3. NOTE: Used Oil Processors must also meet all applicable subparts, (**describe compliance in process description for applicable standards**) if they are:

- Generators (Subpart C of Part 279)
 Transporters (Subpart E)
 Burners of off-spec used oil (Subpart G)
 Marketers (Subpart H)
 are disposing of used oil (Subpart I)

4. Date current operation began: 01/18/1985

5. Facility name: Triumvirate Environmental Services, Inc. (TESI)

6. EPA identification number: FLD 981 018 773

7. Facility Location:

<u>3670 SW 47th Ave</u>	<u>Davie</u>	<u>FL</u>	<u>33314</u>
Street	City	State	Zip Code

8. Facility mailing address (if different from facility location):

<u>3701 SW 47th Ave, Suite 109</u>	<u>Davie</u>	<u>FL</u>	<u>33314</u>
Street or P.O. Box	City	State	Zip Code

9. Contact person: Kevin Coulon Telephone: 954- 583-3795

Title: General Manager - Southeast Email: kcoulon@triumvirate.com

Mailing Address:

<u>3701 SW 47th Ave, Suite 109</u>	<u>Davie</u>	<u>FL</u>	<u>33314</u>
Street or P.O. Box	City	State	Zip Code

10. Operator's name: Triumvirate Environmental Services, Inc. Telephone: 954 - 583-3795

Email: kcoulon@triumvirate.com

Mailing Address:

<u>3701 SW 47th Ave, Suite 109</u>	<u>Davie</u>	<u>FL</u>	<u>33314</u>
Street or P.O. Box	City	State	Zip Code

11. Facility owner's name: Triumvirate Environmental Services, Inc. Telephone: 954 - 583-3795

Email: kcoulon@triumvirate.com

Mailing Address:
3701 SW 47th Ave, Suite 109 Davie FL 33314
Street or P.O. Box City State Zip Code

12. Legal structure:

Corporation (indicate state of incorporation) Florida
 Individual (list name and address of each owner in spaces provided below)
 Partnership (list name and address of each owner in spaces provided below)
 Other, e.g., government (please specify) _____
 Individual, partnership, or business operating under an assumed name (enter the county and state where the name is registered) County _____ State _____

Name: _____
Mailing Address: _____

Street or P.O. Box City State Zip Code

Name: _____
Mailing Address: _____

Street or P.O. Box City State Zip Code

Name: _____
Mailing Address: _____

Street or P.O. Box City State Zip Code

Name: _____
Mailing Address: _____

Street or P.O. Box City State Zip Code

13. Site ownership status: owned to be purchased to be leased _____ years
 presently leased; the expiration date of the lease is: _____

If leased, indicate: Land owner's name: _____
Mailing Address: _____

Street or P.O. Box City State Zip Code

14. Name of professional engineer Victoriano L. San Agustin, Jr. Registration No. 40226

Telephone: 386 - 238-9658 Email: vsanagustin@mdindustrialservices.com

Mailing Address:
5896 Azalea Street Port Orange FL 32127
Street or P.O. Box City State Zip Code

Associated with: M&D Industrial Services, LLC

B. SITE INFORMATION

1. Facility location:

County: Broward
Nearest community: Davie, FL
Latitude: 26.0769477 Longitude: -80.2095771
Section: 25 Township: 50 Range: 41
UTM # 17 / 579053 / 2884445 / _____

2. Facility size (area in acres): 2.02

3. Attach a topographic map of the facility area and a scale drawing and photographs of the facility showing the location of all past, present and future material and waste receiving, storage and processing areas, including size and location of tanks, containers, pipelines and equipment. Also show incoming and outgoing material and waste traffic pattern including estimated volume and controls.
Topographic map in Attachment O. Scale drawings in Figure 1 and Attachment N. Size and location of tanks, pipes, equipment in Attachment N. Only one gate for traffic entry and exit. Facility photos in Attachment U.

C. OPERATING INFORMATION

1. Hazardous waste generator status (SQG, LQG, etc.) VSQG

2. List applicable EPA hazardous waste codes:
See attached list of applicable EPA hazardous waste codes in Attachment A (Revision 1),
Section B "Waste Codes".

3. Attach a brief description of the facility operation, nature of the business, and activities that it intends to conduct, and the anticipated number of employees. No proprietary information need be included in this narrative.

A brief description of the facility operation is labeled as Attachment C

4. A detailed description of the process flow should be included. This description should discuss the overall scope of the operation including analysis, treatment, storage and other processing, beginning with the arrival of an incoming shipment to the departure of an outgoing shipment. Include items such as size and location of tanks, containers, etc. A detailed site map, drawn to scale, should be attached to this description. [See item four (4) of the instructions.]

The facility's detailed process description is labeled as Attachment D

5. The following parts of the facility's operating plan should be included as attachments to the permit application. [See item five (5) of the instructions.]

- a. An analysis plan which must include:
 - (i) A sampling plan, including methods and frequency of sampling and analyses;
 - (ii) A description of the fingerprint analysis on incoming shipments, as appropriate; and
 - (iii) An analysis plan for each outgoing shipment (one batch/lot can equal a shipment provided the lots are discreet units) to include: metals and halogen content

The analysis plan is labeled as Attachment E

- b. A description of the management of sludges, residues and byproducts. This must include the characterization analysis as well as the frequency of sludge removal.

Sludge, residue and byproduct management description is labeled as Attachment F

- c. A tracking plan which must include the name, address and EPA identification number of the transporter, origin, destination, quantities and dates of all incoming and outgoing shipments of used oil.

The tracking plan is included as Attachment G

6. Attach a copy of the facility's preparedness and prevention plan. This requirement may be satisfied by modifying or expounding upon an existing SPCC plan. Describe how the facility is maintained and operated to minimize the possibility of a fire, explosion or any unplanned releases of used oil to air, soil, surface water or groundwater which could threaten human health or the environment. [See item six (6) of the instructions.]

The preparedness and prevention plan is labeled as Attachment H

7. Attach a copy of the facility's Contingency Plan. This requirement should describe emergency management personnel and procedures and may be met using a modifying or expounding on an existing SPCC plan or should contain the items listed in the Specific Instructions. [See item seven (7) of the instructions.]

The contingency plan is labeled as Attachment I

8. Attach a description of the facility's unit management for tanks and containers holding used oil. This attachment must describe secondary containment specifications, inspection and monitoring schedules and corrective actions. This attachment must also provide evidence that all used oil process and storage tanks meet the requirements described in item 8b of the specific instructions, and should be certified by a professional engineer, as applicable.

The unit management description is labeled as Attachment J & M

9. Attach a copy of facility's employee training for used oil management. This attachment should describe the methods or materials, frequency, and documentation of the training of employees in familiarity with state and federal rules and regulations as well as personal safety and emergency response equipment and procedures. [See item nine (9) of the instructions.]

A description of employee training is labeled as Attachment L

10. Attach a copy of the facility's Closure plan and schedule. This plan may be generic in nature and will be modified to address site specific closure standards at the time of closure. [See item ten (10) of the instructions.]

The closure plan is labeled as Attachment K

11.

The applicant must have an approved current dollar closing cost estimate using DEP Form 62-710.901(7), "Used Oil Processing Facility Closing Cost Estimate Form," before an application is considered complete. If not previously submitted pursuant to the requirements of Rule 62-710.800(6), F.A.C., and approved by the Department, attach DEP Form 62-710.901(7) here and send a copy to Financial.Assurance.Working.Group@floridadep.gov. [See item eleven (11) of the instructions.]

The current dollar cost estimate is dated 1/7/2022 and was approved by the Department on 1/7/2022. or

A current dollar cost estimate is labeled as Attachment _____. A copy has been sent to the Financial Assurance Working Group.

12. The applicant must have acceptable proof of financial assurance covering the current dollar Department approved closing cost estimate before the issuance of a permit. Original signature financial assurance documentation that meets the requirements of Rule 62-701.630(6), F.A.C. (pursuant to Rule 62-710.800(6), F.A.C.), must be submitted directly to the Financial Assurance Working Group (aka Solid Waste Financial Coordinator) at the address below. Because this documentation and approval letters may contain proprietary information, copies are not required to be part of the permit application itself. [See item twelve (12) of the instructions.]

Financial Assurance Working Group
Department of Environmental Protection
Permitting & Compliance Assistance Program
2600 Blair Stone Rd. MS 4548
Tallahassee, FL 32399-2400

Financial assurance (FA) documentation was submitted to the Department and the most recent FA compliance letter is dated 2 / 21 / 2022. or

Financial assurance documentation will be submitted to the Department after the attached estimate is approved _____ (check if appropriate).

APPLICATION FORM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

TO BE COMPLETED BY ALL APPLICANTS

Form 62-710.901(6) Operator Certification

Facility Name: Triumvirate Environmental Services, Inc. EPA ID# FLD 981 018 773

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or knowing violations. Further, I agree to comply with the provisions of Chapter 403, Florida Statutes, Chapters 62-701 and 62-710, F.A.C., and all rules and regulations of the Department of Environmental Protection



Signature of the Operator or Authorized Representative*

Douglas Youngen, President

Name and Title (Please type or print)

Date: 11/8/2022 Telephone: 617 - 628-8098

Email: dyoungen@triumvirate.com

* If authorized representative, attach letter of authorization.

APPLICATION FROM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

Form 62-710.901(6) Facility Owner Certification

Facility Name: Triumvirate Environmental Services, Inc. EPA ID# FLD 981 018 773

This is to certify that I understand this application is submitted for the purpose of obtaining a permit to construct, or operate a used oil processing facility. As the facility owner, I understand fully that the facility operator and I are jointly responsible for compliance with the provisions of Chapter 403, Florida Statutes, Chapters 62-701 and 62-710, F.A.C., and all rules and regulations of the Department of Environmental Protection.



Signature of the Operator or Authorized Representative*

Douglas Youngen, President

Name and Title (Please type or print)

Date: 11/8/2022 Telephone: 617 - 628-8098

Email: dyoungen@triumvirate.com

* If authorized representative, attach letter of authorization.

APPLICATION FROM FOR A USED OIL PROCESSING PERMIT

PART II - CERTIFICATION

Form 62-710.901(6) Land Owner Certification

Facility Name: Triumvirate Environmental Services, Inc. EPA ID# FLD 981 018 773

This is to certify that I, as land owner, understand that this application is submitted for the purpose of obtaining a permit to construct, or operate a used oil processing facility on the property as described.



Signature of the Operator or Authorized Representative*

Douglas Youngen, President

Name and Title (Please type or print)

Date: 11/8/2022 Telephone: 617 - 628-8098

Email: dyoungen@triumvirate.com

* If authorized representative, attach letter of authorization.



**Used Oil and Material Processing Facility
Permit Renewal Application**

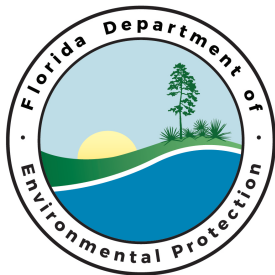
**Attachment B: Application To Construct,
Operate, Or Modify A Waste Processing Facility
(Form 62-701.900(4))**

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Application Date: September 1, 2022



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(4), F.A.C.
Form Title: Application to Construct, Operate, or Modify a Waste Processing Facility
Effective Date: February 15, 2015
Incorporated in Rule: 62-701.710(2), F.A.C.

APPLICATION TO CONSTRUCT, OPERATE, OR MODIFY A WASTE PROCESSING FACILITY

GENERAL REQUIREMENT: Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes (F.S.) and in accordance with Florida Administrative Code (F.A.C.) Chapter 62-701. A permit application shall be submitted in accordance with the requirements of Rule 62-701.320(5)(a), F.A.C., to the Department District Office having jurisdiction over the facility. The appropriate fee in accordance with subsection 62-701.315(4), F.A.C., shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP). Complete appropriate sections for the type of facility for which application is made and include all additional information, drawings, and reports necessary to evaluate the facility.

Please Type or Print in Ink

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

Transfer Station:

C&D

Class III

Class I

Other Describe: _____

Materials Recovery Facility:

C&D Recycling

Class III MRF

Class I MRF

Other Describe: _____

Other Facility That Processes But Does Not Dispose Of Solid Waste On-Site:

Storage, Processing or Disposal for Combustion Facilities (not addressed in another permit)

Other Describe: _____

NOTE: C&D Disposal facilities that also recycle C&D, shall apply on DEP FORM 62-701.900(6), F.A.C.

2. Type of application:

Construction/Operation

Operation without Additional Construction

3. Classification of application:

New

Substantial Modification

Renewal

Intermediate Modification

Minor Modification

4. Facility name: _____

5. DEP ID number: _____ County: _____

6. Facility location (main entrance): _____

16. Provide a brief description of the operations planned for this facility: _____

B. ADDITIONAL INFORMATION

Please attach the following reports or documentation as required.

1. Provide a description of the operation of the facility that shall include (62-701.710(2)(a), F.A.C.): ****Attachment C****
 - a. The types of materials, i.e., wastes, recyclable materials or recovered materials, to be managed or processed;
 - b. The expected daily average and maximum weights or volumes of materials to be managed or processed;
 - c. How the materials will be managed or processed;
 - d. How the materials will flow through the facility including locations of the loading, unloading, sorting, processing and storage areas;
 - e. The types of equipment that will be used;
 - f. The maximum time materials will be stored at the facility;
 - g. The maximum amounts of wastes, recyclable materials, and recovered materials that will be stored at the facility at any one time; and
 - h. The expected disposition of materials after leaving the facility.
2. Attach a site plan, signed and sealed by a professional engineer registered under Chapter 471, F.S., with a scale not greater than 200 feet to the inch, which shows the facility location, total acreage of the site, and any other relevant features such as water bodies or wetlands on or within 200 feet of the site, potable water wells on or within 500 feet of the site (62-701.710(2)(b), F.A.C.). ****Figure 1****
3. Provide a boundary survey and legal description of the property (62-701.710(2)(c), F.A.C.). **** Attachment O****
4. Provide a construction plan, including engineering calculations, that describes how the applicant will comply with the design requirements of subsection 62-701.710(3), F.A.C. (62-701.710(2)(d), F.A.C.). ****Attachment N****
5. Provide an operation plan that describes how the applicant will comply with subsection 62-701.710(4), F.A.C. and the recordkeeping requirements of subsection 62-701.710(8), F.A.C. (62-701.710(2)(e), F.A.C.). ****Attachment D****
6. Provide a closure plan that describes how the applicant will comply with subsection 62-701.710(6), F.A.C. (62-701.710(2)(f), F.A.C.). ****Attachment K****
7. Provide a contingency plan that describes how the applicant will comply with subsection 62-701.320(16), F.A.C. (62-701.710(2)(g), F.A.C.). ****Attachment I****
8. Unless exempted by subparagraph 62-701.710(1)(d)1., F.A.C., provide the financial assurance documentation required by subsection 62-701.710(7), F.A.C. (62-701.710(2)(h), F.A.C.). ****Attachment K****
9. Provide a history and description of any enforcement actions by the applicant described in subsection 62-701.320(3), F.A.C. relating to solid waste management facilities in Florida. (62-701.710(2), F.A.C. and 62-701.320(7)(i), F.A.C.) ****Attachment S****
10. Provide documentation that the applicant either owns the property or has legal authorization from the property owner to use the site for a waste processing facility (62-701.710(2), F.A.C. and 62-701.320(7)(g), F.A.C.) ****Attachment T****

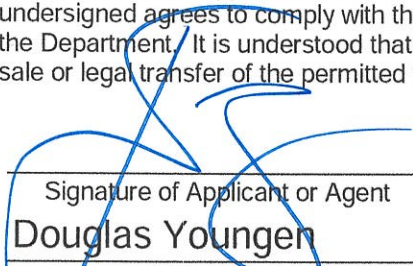
C. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Triumvirate Environmental Services, Inc.

is aware that statements made in this form and attached information are an application for a solid waste processing

Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.



Signature of Applicant or Agent
Douglas Youngen

Name and Title (please type)
dyoungen@triumvirate.com

E-Mail address (if available)

3701 SW 47th Ave, Suite 109

Mailing Address
Davie, FL 33314

City, State, Zip Code
() 954-583-3795

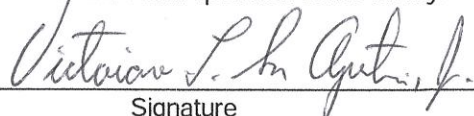
Telephone Number
08/19/2022

Date

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this waste processing facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.



Signature
Victoriano L. San Agustin, Jr., Senior Engineer

Name and Title (please type)

40226

Florida Registration Number
(please affix seal)

5896 Azalea Street

Mailing Address
Port Orange, FL 32127

City, State, Zip Code
vsanagustin@mdindustrialservices.com

E-Mail address (if available)
() 386-238-9658

Telephone Number
8-18-22

Date





**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment C: Operations Description

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

Brief Description of the Facility Operation

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida) Inc., (TEIFL), is a used oil processing and solid waste processing facility that is located in the Town of Davie. As used oil filter and used oil processor, transporter, transfer facility, and marketer, TESI is subject to 40 CFR 279 and applicable state regulations governing used oil management. Used oil is stored in multiple tanks located within the southernmost tank storage area. There are no underground tanks or underground piping located at the facility. All aboveground tanks, piping, and ancillary equipment is secondarily contained. Used oil is processed at the facility utilizing proprietary physical and chemical methodologies. Used oil is separated from water by allowing the material to settle; chemical separation is also utilized as needed. Used oil and non-hazardous waste are tested in accordance with the facility's Waste Analysis Plan (Located in **Attachment E**).

TESI is also a solid waste processing facility. TESI receives non-hazardous wastes from CERCLA and non-CERCLA sites. TESI consolidates non-recyclable, non-hazardous oily sludges and other non-hazardous wastes from drums and other containers into a roll-off container. The roll-off container is then shipped offsite to a permitted treatment, storage, and disposal facility (TSDF).

Additionally, TESI is a hazardous waste transporter, 10-day hazardous waste transfer facility, and a biomedical waste transporter and storage facility. TESI is also a transporter, transfer facility, and small quantity handler of universal waste lamps and devices.

There are 5-10 employees associated with site operations.



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment D: Process Description

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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Detailed Process Description

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc. (TEIFL), is a used oil processing facility located in the Town of Davie, Florida. As a used oil and used oil filter processor, transporter, and marketer, TESI is subject to 40 CFR 279 and all applicable state and local regulations governing used oil management. Additionally, TESI is a hazardous waste transporter, 10-day hazardous waste transfer facility, non-hazardous waste processing facility, biomedical waste transporter, and biomedical waste storage facility. TESI is a transporter, transfer facility, and small quantity handler of universal waste and devices.

TESI accepts all used oil, off specification fuel, coolants, oil filters, industrial non-hazardous waste, oily wastewater, petroleum contact water, non-hazardous investigative derived wastewater, non-hazardous investigative derived solids and sludges, non-hazardous sludge, petroleum contaminated soil and sludges, and virgin fuels.

1. Used Oil Treatment Storage and Other Processing

Used oil is collected at the facility from pump trucks, DOT-approved drums, or tanker trailers from automotive generators such as dealerships and used oil generators from the marine industry and other used oil generating industries.

Used oil is received from pump trucks, DOT-approved drums, or tanker trailers from generators such as companies in the automotive industry, cruise ships, and industrial manufacturers. At the facility, used oil is transferred into one of the onsite storage tanks. A list of storage tanks is shown in **Attachment M “Unit Management”**. The location of these storage tanks are shown in **Figure 1 “Facility Site Plan”**. The used oil is then filtered, heat-treated for oil/water separation, and then sold as burner fuel to asphalt plants, cement plants, and power utility companies. Used oil is tested by an outside laboratory to make sure the used oil fuel meets compliance with the federal standards for “on-specification fuel.” Each load that enters the facility is tested for halogens using a Dexsil test kit to ensure the oil does not exceed 999 parts per million total halogens.

Non-hazardous wastewater is collected in separate compartments of pump trucks. It is also collected in DOT-approved drums, or tanker trailers from generators such as cruise ships, auto dealerships, and industrial facilities. The water is transferred into a 100,000 gallon surge tank designated as Tank T21, then filtered, then heated for oil/water separation (water fraction only), and then transferred to an offsite industrial wastewater pre-treatment facility for treatment and disposal. The term “oily wastewater” is applied only to non-hazardous oily wastewater, based on either a TCLP test of petroleum related contaminants of the generator’s waste stream of <1,000 ppm total halogens, or based on the generator’s technical knowledge of the waste stream if the source and extent of the contamination is known.

Used oil is stored in one of multiple tanks located within the southernmost tank storage area. Oily wastewater is stored in both the southern and northern tank storage areas. There are no underground tanks or piping located at the facility. All tanks, piping, and ancillary equipment are located within secondary containment. Used oil is processed utilizing proprietary physical and chemical methods. Refer to **Figure 1** for the sitemap and **Attachment M “Unit Management”** for a list of all tanks at the facility.

a. Analysis

As stated in 40 CFR 279.10(b)(ii), used oil containing or thought to contain more than 999 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous wastes listed in Subpart D of 40 CFR 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of part 261 of this chapter).

- The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffin's if they are processed through a tolling arrangement, as described in 279.24(c), to reclaim metalworking oils/fluids. The presumption does not apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner or disposed.
- The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFC's are destined for reclamation.

b. On Specification Used Oil

According to 40 CFR 279.11 used oil burned for energy recovery and any fuel produced from used oil by processing, blending, or other treatment is subject to regulation under 40 CFR 279 if it can be shown that the used oil does not exceed any part of the allowable levels for constituents shown below:

Table 1: Used Oil Allowable Constituents	
Constituents / Property	Allowable Levels
Arsenic	5 ppm Maximum
Cadmium	2 ppm Maximum
Chromium	10 ppm Maximum
Lead	100 ppm Maximum
Flash Point	100°F Minimum
PCB	2 ppm Maximum
Total Halogens	1,000 ppm Maximum

Pursuant to 40 CFR 279.72, a generator, transporter, processor, re-refiner, or burner may determine that used oil that is to be burned for energy recovery meets the specifications of Table 1 by performing analyses or obtaining copies of analyses or other information documenting that the used oil meets the above specifications.

TESI utilizes on-site, contract laboratories, and/or laboratory capabilities of its affiliate companies to satisfy the requirements of its waste analysis plan. All laboratories shall utilize the methodologies and procedures found in USEPA publications SW-846, most current edition.

TESI conducts various site-specific analyses for the various generators which they encounter. Regular generators (i.e., generators that produce used oil or oily wastewater as part of a normal on going

operation) and non-regular generators of used oil and oily wastewaters are sampled and analyzed initially using the Dexsil test or other equivalent test method. Subsequent used oil from the same generators is screened for halogens using a Tekmate halogen sniffer or other equivalent halogen sniffer. Results of halogen screening are shown on the used oil manifest. If the halogen sniffer detects halogens, the used oil is tested using the Dexsil test. If the halogen sniffer detects no halogens, the used oil is accepted.

Every load delivered to a facility by an outside transporter is sampled prior to off-loading the material. Non-frequent generators or one time generators are sampled prior to removal of material from the generator site.

Before TESI accepts used oil from a generator for the first time, a sample of the oil is examined to determine whether or not the total halogen content is less than or equal to 999 ppm. TESI utilizes SW-846 Method 9077 "Test for Chlorine in New and Used Petroleum Products" and other equivalent method(s) to determine halogen content. If the oil contains less than or equal to 999 ppm total halogens, TESI shall accept the material for processing. After the initial receipt, subsequent used oil from the same generators are tested for halogens using the Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the used oil is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initial acceptance of used oil is performed.

If the used oil contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm.

If the used oil does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds; TESI shall accept the used oil. If the used oil does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use used oil must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

2. Hazardous Waste Transporter

a. Treatment, Storage, and Other Processing

TESI is a registered hazardous waste transporter and handles customers hazardous waste by temporarily storing the wastes until they are picked up or delivered to a permitted waste disposal facility (40 CFR 263.12). TESI has a dedicated area at its facility for storing drummed hazardous wastes. Drummed hazardous wastes are stored in its permitted area and do not exceed the permitted volume. All drums of hazardous waste are kept within secondary containment.

3. Non-Hazardous Sludge, Non-Hazardous Derived Soils, and Petroleum Contaminated Soils/Sludges Processor

a. Treatment, Storage and Other Processing

Non-hazardous sludges which include heavy oils and/or contaminated fuels must be blended before they meet customer fuel specification. After being pumped into the 100,000 gallon surge tank, the material enters the normal separation processes. Bottom sludges generated during this process must regularly be removed from the tank. The tanks are cleaned, and the material is drummed and tested for TCLP toxicity. Hazardous sludges are managed as hazardous wastes and disposed of through a permitted waste disposal facility.

b. Analysis

Solids/Sludges shall be analyzed for RCRA metals and organic constituents in accordance with Toxicity Characteristic Leaching Procedure (TCLP) or may be accepted based on the generator's technical knowledge of the waste stream. Additional testing for ignitability or corrosivity may be required.

4. Solid Waste Processing

TESI is also permitted as a solid waste processing facility. TESI may receive non-hazardous waste in drums and other similar size containers. These drums are stored either inside the one storage building, containment #8, or inside containment #3.

a. Operations Under Current Operating Permit

The maximum amount of drums stored onsite are 300 drums and one roll-off container for consolidation. The drums remain closed unless they are being processed. Some drums of used oil contain non-pumpable, non-recyclable sludges and solids after pumping out the used oil. Non-hazardous materials also include latex paints and other non-RCRA materials from our clients. Drummed waste is stored inside the drum storage building and outside in the secondary containment by the roll-off.

TESI consolidates the above mentioned non-hazardous wastes from the smaller containers into the one 20 cubic yard roll-off container located in containment #3. The roll-off is covered when not in use. An inert absorbent material is used to solidify any free liquids that may be present inside the roll-off. Solidification occurs with pigs, oil absorbents, pads, used oil dry, or swell-gel.

The roll-off container is then shipped offsite to a permitted treatment, storage, and disposal facility (TSDF).

b. Proposed Modifications to Operating Permit

The following is a summary of the requested modifications to the current solid waste processing operations described above:

1. TESI requests the ability to use two roll-off containers for consolidation and solidification of non-hazardous solid materials. The current permit authorizes only one roll-off container.
2. TESI requests the ability to consolidate any non-hazardous solid waste in the roll-off containers. The current permit limits the type of material that can be consolidated to only oil contaminated debris and latex paint.
3. TESI requests an increase in the storage limit of non-hazardous drums for processing to 500, 55-gallon equivalents. The current permit allows 300, 55-gallon equivalents.
4. TESI requests the ability to de-valve non-hazardous waste cylinders. A Standard Operating Procedure (SOP) for this process is provided in **Attachment P "Cylinder Devalve Process"**.

c. Analysis

Solids/sludges shall be analyzed for RCRA metals and organic constituents in accordance with Toxicity Characteristic Leaching Procedure (TCLP) or may be accepted based on the generator's technical knowledge of the waste stream. Additional testing for ignitability or corrosivity may be required.



**Used Oil and Material Processing Facility
Permit Renewal Application**

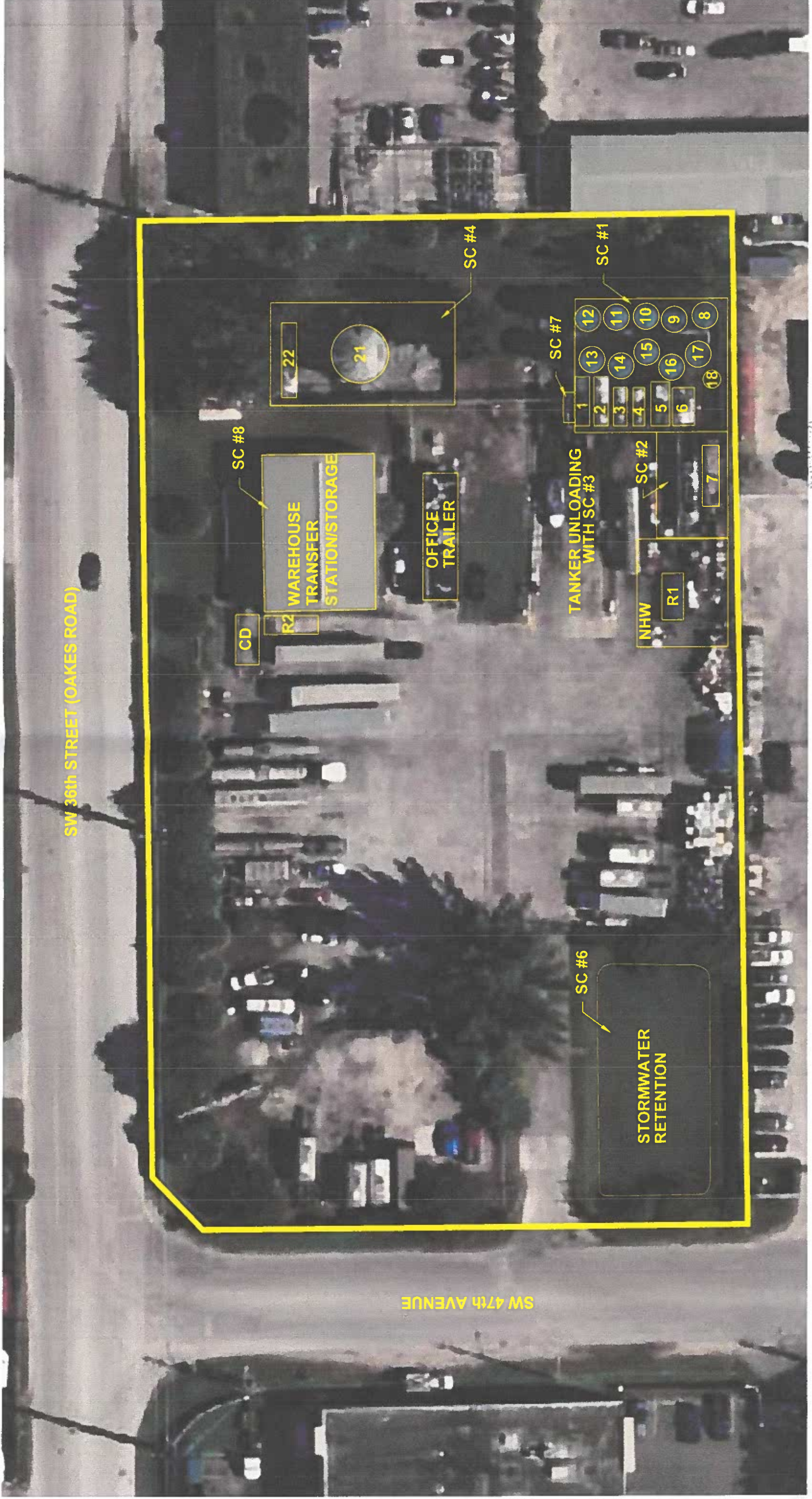
Figure 1: Site Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

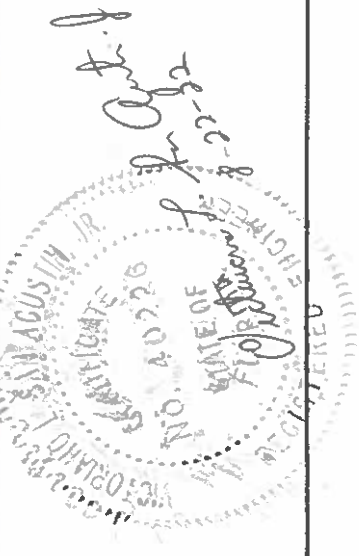
EPA ID No. FLD981018773

Application Date: September 1, 2022



SW 36th STREET (OAKES ROAD)

SW 47th AVENUE

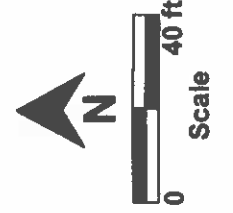


TRIUMVIRATE ENVIRONMENTAL, INC.
3701 SW 47th Avenue
Davie, Florida 33314

PROJECT NO. E0630
DATE August 9, 2022
TEI Facility Site Plan
FIGURE 1



LEGEND:
 1 - horizontal above ground storage tank (AST)
 13 - vertical AST
 R1 - location of current rolloff for non-hazardous waste solidification/consolidation.
 R2 - location of second rolloff for non-hazardous waste solidification/consolidation.
 CD - concrete dock
 NHW - area where non-hazardous drums are stored prior to solidification/consolidation in rolloff.
 SC #1 - secondary containment no. 1





**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment E: Waste Analysis Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Initial Application Date: September 1, 2022

Revision #1: November 14, 2022

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Waste Analysis Plan and Material Profiling

A. Introduction

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc. (TEIFL), is a used oil processing facility located in the town of Davie, Florida. As a used oil and used oil filter processor, transporter, and marketer, TESI is subject to 40 CFR 279 and all applicable state and local regulations governing used oil management. Specifically, 40 CFR 279.55 requires TESI, as a used oil processing facility, to prepare, maintain, and adhere to a Waste Analysis Plan. As stated in 40 CFR 279.55, the owner/operator of a used oil processing facility must develop and follow a written waste analysis plan describing the procedures that shall be used to comply with the analytical requirements of 40 CFR 279.53, the rebuttable presumption, and 40 CFR 279.72, the determination of on-specification used oil. This waste analysis plan is developed to satisfy the requirements of 40 CFR 279.55 by establishing methods for documenting the analytical requirements of 40 CFR 279.53 and 279.72.

Additionally, TESI is a hazardous waste transporter, 10-day hazardous waste transfer facility, non-hazardous waste processing facility, biomedical waste transporter, and biomedical waste storage facility. TESI is also a transporter, transfer facility, and small quantity handler of universal waste and devices. This waste analysis plan is also designed to ensure compliance with waste characterization and management regulations.

B. Used Oil and Oily Waste

Used oil and oily waste include but are not limited to used oil, oily wastewater, oil filters, and oil contaminated solids and sludges.

1. Rebuttable Presumption

As stated in 40 CFR 279.10(b)(ii), used oil containing or thought to contain more than 999 ppm total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous wastes listed in Subpart D of 40 CFR 261. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of Part 261).

- a) The rebuttable presumption does not apply to metalworking oils/fluids containing chlorinated paraffins, if they are processed, through a tolling arrangement as described in 279.24(c), to reclaim metalworking oils/fluids. The presumption does not apply to metalworking oils/fluids if such oils/fluids are recycled in any other manner or disposed.
- b) The rebuttable presumption does not apply to used oils contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where the CFCs are destined for reclamation.

2. On Specification Used Oil

According to 40 CFR 279.11 used oil burned for energy recovery and any fuel produced from used oil by processing, blending, or other treatment is subject to regulation under 40 CFR 279 if it can be shown that the used oil does not exceed any part of the allowable levels for constituents shown below:

Table 1: Used Oil Allowable Constituents	
Constituents / Property	Allowable Levels
Arsenic	5 ppm Maximum
Cadmium	2 ppm Maximum
Chromium	10 ppm Maximum
Lead	100 ppm Maximum
Flash Point	100°F Minimum
PCB	1 ppm Maximum
Total Halogens	1,000 ppm Maximum

Pursuant to 40 CFR 279.72, a generator, transporter, processor, re-refiner, or burner may determine that used oil that is to be burned for energy recovery meets the specifications of the Table 1 by performing analyses or obtaining copies of analyses or other information documenting that the used oil meets the above specifications.

C. Waste Analysis Plan

TESI utilizes on-site, contract laboratories, and/or laboratory capabilities of its affiliate companies to satisfy the requirements of its waste analysis plan. All laboratories shall utilize the methodologies and procedures found in USEPA publications SW-846, most current edition.

TESI, because of the nature of its business, varies the analysis on a site-specific basis. Regular generators (i.e., generators that produce used oil or oily wastewater as part of a normal ongoing operation) and non-regular generators of used oil and oily wastewaters are sampled and analyzed initially using the Dexsil test or other equivalent test method. Subsequent used oil from the same generators is screened for halogens using a Tekmate halogen sniffer or other equivalent halogen sniffer. Results of halogen screening are shown on the used oil manifest. If the halogen sniffer detects halogens, the used oil is tested using the Dexsil test. If the halogen sniffer detects no halogens, the used oil is accepted.

1. Used Oil and Oily Waste

Used Oil and Oily Wastewater

Before TESI accepts used oil from a generator for the first time, a sample of the oil is examined to determine whether or not the total halogen content is less than equal to 999 ppm. TESI utilizes SW-846 Method 9077 "Test for Chlorine in New and Used petroleum Products" and other equivalent method(s) to determine halogen content. If the oil contains less than or equal to 999 ppm total halogens, TESI shall accept the material for processing. After the initial receipt, subsequent used oil from the same generators is tested for halogens using the Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the used oil is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initial acceptance of used oil is performed.

If the used oil contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm.

If the used oil does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall accept the used oil. All used oil and oily wastewater is stored in accordance with the facilities SPCC plan and inside a secondary containment. If the used oil does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use used oil must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

Documentation of this waste analysis shall be through facility inventory logs and/or the material Profile Form (or their equivalent) for used oil and oily waste (see **Attachment Q**).

Notes:

1. Compressor and refrigerant oils contaminated with chlorofluorocarbons (CFCs) shall be managed as hazardous waste. Refer to Section G for waste analysis information regarding hazardous wastes. TESI may revise this standard operating procedure in accordance with federal, state, and local regulations.
2. Hazardous waste from conditionally exempt small quantity generators (CESQG) shall not be mixed with used oil.
3. TESI does not accept used oil commingled with antifreeze without analytical data indicating that the antifreeze was non-hazardous prior to mixing with the used oil.

Oil Filters

Before accepting used oil filters (crushed or uncrushed) for transportation and recycling as scrap metal, the oil filters shall be gravity drained by the generator pursuant to 40 CFR 279.10 9(c)(1)(i). Pursuant to 40 CFR 279.10(c)(1)(i) and 40 CFR 261.4(b)(13), oil filters are not subject regulation as hazardous waste under 40 CFR 261 or used oil under 40 CFR 279. A material profile form is not required for this waste. All oil filters are stored in accordance with the facilities SPCC plan and inside a secondary containment.

If any indication exists that the oil filters have been commingled with waste listed in Subpart D of 40 CFR 261 the filters shall be rejected. A sample of the commingled waste shall be obtained for analysis pursuant to Section G.

Oily Solids/Sludges Destined for Recycling

Before TESI accepts oily solids or oily sludges from a generator for the first time, a sample of the material is examined to determine whether or not the total halogen content is less than equal to 999 ppm. TESI utilizes SW-846 Method 9077 "Test for Chlorine in New and Used petroleum Products" and other equivalent method(s) to determine halogen content. If the material contains less than or equal to 999 ppm total halogens, TESI shall accept the material for processing. After the initial receipt, subsequent oily solids or oily sludges from the same generators are tested for halogens using the

Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the used oil is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initial acceptance of used oil is performed.

If use the used oil contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm.

If the material does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall accept the used oil. All oily solids/sludges are stored in accordance with the facilities SPCC plan and inside a secondary containment. If the used oil does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use material must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

Documentation of this waste analysis shall be through facility inventory logs and/or the Material Profile Form (or their equivalent) for used oil and oily waste (see **Attachment Q “Permit Related Forms”**).

Note: Hazardous waste sludges/solids from Conditionally Exempt Small Quantity Generators/Very Small Quantity Generators (VSQGs) shall not be mixed with oily waste.

Oily Solids/Sludges Destined for Disposal

Although used oil is commonly recovered from oily solids/sludges, oily solids/sludges may be managed as waste destined for disposal, not recycling. Therefore, these materials, when destined for disposal, shall be analyzed for RCRA metals and organics in accordance with the TCLP as well as ignitability and corrosivity, if applicable. If process knowledge is available indicating the nature and/or physical characteristics of the waste, the above mentioned analytical requirements may be reduced. However, the minimum analytical requirements shall be RCRA metals and organics in accordance with TCLP. All oily solids/sludges are stored in accordance with the facilities SPCC plan and inside a secondary containment.

Documentation of this waste analysis shall be through the Material Profile Form in **Attachment Q “Permit Related Forms”**, or equivalent.

2. Processed Used Oil

Processed used oil is stored in a product tank until shipment to an industrial furnace. Each time a tanker trailer is loaded with processed used oil for shipment to an industrial furnace, the used oil shall be tested to demonstrate that the total halogen content is less than or equal to 1,000 PPM. TESI utilizes SW-846 Method 9077 “Test Method for Total Chlorine in New and Used Petroleum Products” or equivalent method to determine the halogen content.

Samples are also analyzed monthly by a contract laboratory to determine if the used oil is on specification meeting the requirements of Table 1. One sample is taken every 100,000 gallons batch or two samples per month, whichever is greater. In addition to the requirements of Table 1, the samples shall be analyzed for polychlorinated biphenyls (PCBs), BTUs, sulfur, and viscosity. All analysis shall be conducted in accordance with SW-846 or ASTM protocols, as applicable.

Documentation of this waste analysis shall be through facility inventory logs and monthly analytical data maintained as part of the facility records. Copies will be forwarded to the customer so that they can be included in their operational records.

D. Non-Hazardous Wastewater

Incoming wastewater shall be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). Additional testing for ignitability and corrosivity may also be required. If process knowledge is available indicating the nature and/or physical characteristics of the waste, then the above mentioned analytical requirements may be reduced.

E. Petroleum Contact Water

For wastewater subject to the Petroleum Contact Water (PCW) regulations under rule 62-740 F.A.C. generators shall provide analytical data or process knowledge, along with any Safety Data Sheets (SDSs) that the generator has, demonstrating that the PCW does not contain hazardous constituents above those found in the petroleum source of the PCW or other hazardous constituents not normally found in the PCW. Petroleum contact water is collected in separate trucks from used oil.

Documentation of this waste analysis shall be through the Material Profile Form (see **Attachment Q**). If it is determined that the waste is hazardous refer to Section G below for more waste analysis information.

F. Non-Hazardous Solids/Sludges

Solids/Sludges shall be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). Additional testing for ignitability and corrosivity may also be required. If process knowledge is available indicating the nature and/or physical characteristics of the waste, then the above mentioned analytical requirements may be reduced.

Documentation of this waste analysis shall be through the Material Profile Form (see **Attachment Q**).



**Used Oil and Material Processing Facility
Permit Renewal Application**

**Attachment F: Sludge, Residue, and Byproduct
Management**

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Application Date: September 1, 2022

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Sludge, Residue, and Byproduct Management Plan

A. Oily Solids/Sludges Destined for Recycle

Before Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc., accepts oily solids/sludges from a generator for the first time, a sample of the material is examined to determine whether or not the total halogen content is less than equal to 999 ppm. TESI utilizes SW-846 Method 9077 “Test for Chlorine in New and Used Petroleum Products” and other equivalent method(s) to determine halogen content. If the material contains less than or equal to 999 ppm total halogens, TESI shall accept the material for recycling. After the initial receipt, subsequent used oil from the same generators are tested for halogens using the Tekmate halogen sniffer or other equivalent halogen sniffer. If the halogen sniffer does not detect halogens, the material is accepted. If halogens are detected by the sniffer, the above mentioned test method used of initially is conducted.

If use the used material contains 1,000 ppm or more total halogens, TESI shall forward the sample to a contract laboratory or a permitted hazardous waste facility for analysis by EPA method 8010 or an equivalent method(s) to check for significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents. Significant concentrations of halogenated constituents, as outlined by USEPA, is any single halogenated constituent with a concentration exceeding 100 ppm or the total halogens exceeding 1,000 ppm.

If the used material does not contain significant concentrations of 40 CFR 261, Appendix VIII halogenated constituents; TESI shall accept the material for recycling. If the material does contain significant concentrations of 40 CFR 261, Appendix VIII halogenated compounds, TESI shall inform the generator that use material must be managed as a hazardous waste and routed through the Triumvirate network of facilities or other permitted hazardous waste facilities.

Documentation of this waste analysis shall be through facility inventory logs and/or Material Profile Form for used oil or oil waste. Logs and profile forms are shown in **Attachment Q “Permit Related Forms”**.

The oily solids/sludges are stored inside containment #3 or containment #8 on **Figure 1 “Facility Site Plan”**.

B. Oily Solids/Sludges Destined for Disposal

Although used oil is commonly recovered from oily solids/sludges, oily solids/sludges may be managed as waste destined for disposal, not recycling. Therefore, these materials, when destined for disposal shall be analyzed for RCRA metals and organics in accordance with the Toxicity Characteristic Leaching Procedure (TCLP) as well as for ignitability and corrosivity, if applicable. If process knowledge is available indicating the nature and/or physical characteristics of the waste, the above mentioned analytical requirements may be reduced. If the material is determined to be hazardous, it shall be managed as a hazardous waste pursuant to Section G of **Attachment E “Waste Analysis Plan”**. The oily solids/sludges are stored inside containment #3 or containment #8 on **Figure 1 “Facility Site Plan”**.

C. Non-Hazardous Solids/Sludges

Non-Hazardous Solids/Sludges shall be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP) as well as for ignitability and corrosivity, if applicable. If

process knowledge is available indicating the nature and/or physical characteristics of the waste, the above mentioned analytical requirements may be reduced.

Documentation of this waste analysis shall be the Material Profile Form, as shown in **Attachment Q “Permit Related Forms”**.

If the waste is determined to be hazardous, refer to Section G of the **Attachment E “Waste Analysis Plan”**, for additional waste analysis information.

The oily solids/sludges are stored inside containment #3 on **Figure 1 “Facility Site Plan”**.

D. Management of Residues

Residues from the processing of used oil are managed in accordance with 40 CFR 279.10(c) and characterized in accordance with TESI’s Waste Analysis Plan in **Attachment E**. Non-pumpable, non-recyclable, non-hazardous residues are placed in the permitted solid waste roll-off. Hazardous residues are properly disposed as hazardous waste. Residues are stored inside a roll-off in containment #3 on **Figure 1 “Facility Site Plan”**.



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment G: Waste Tracking Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Waste Tracking Plan

Refer to **Attachment Q “Permit Related Forms”** for copies of TESI’s used oil manifest and facility inventory log utilized for the receipt of Used Oil and for the Used Oil Fuel Delivery manifest utilized to track the delivery of used oil fuel to various industrial furnaces throughout Florida. Additionally, TESI maintains a used oil recordkeeping form required by FDEP. TESI shall maintain all applicable documentation for a minimum of three years.



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment H: Preparedness and Prevention Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

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Preparedness and Prevention Plan

A. Introduction

This plan demonstrates compliance with the requirements of 40 CFR 279.52(a) and 40 CFR 265.30 through 265.37 (as referenced under rule 62-730.171(2)(b)).

Triumvirate Environmental Services, Inc. (TESI), formerly Triumvirate Environmental (Florida), Inc. (TEIFL), is a permitted hazardous waste transporter that operates a ten (10) day hazardous waste transfer facility for drummed hazardous waste. Waste stored in the 10-day transfer area is shipped to a permitted hazardous waste treatment, storage, or disposal facility. TESI also operates a used oil processing facility. Below is the facility's location address and EPA ID number.

Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, FL 33314
EPA ID No. FLD 981 018 773

B. Maintenance and Operation of Facility (40CFR 265.31)

TESI as owner and operator maintains and operates the facility in a manner that minimizes the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents which could threaten human health or the environment.

C. Required Equipment (40 CFR 265.32)

Refer to **Attachment I "Contingency Plan"** for a list of emergency preparedness and prevention equipment.

TESI shall maintain an alarm system to provide emergency communication and instruction to facility personnel.

TESI shall maintain a telephone and/or hand-held radio system capable of summoning inside and outside emergency assistance from local police, fire department, hospital, and other local emergency response organizations.

TESI shall maintain an adequate on-site supply of fire extinguishers, fire control equipment, spill equipment, decontamination equipment, and adequate water pressure.

D. Testing and Maintenance of Equipment (40 CFR 265.33)

The facility communications and alarm system, fire protection equipment, spill control equipment, decontamination equipment shall be checked daily for proper operation in time of an emergency. Refer to **Attachment Q "Permit Related Forms"** for a copy of the daily inspection log.

E. Access to Communication or Alarm System (40 CFR 265.34)

All personnel involved in facility operations shall have immediate access to the alarm and communications system through visual or voice contact with other employees. Facility operations shall be conducted with a minimum of one employee onsite.

F. Required Aisle Space (40 CFR 265.35)

Adequate aisle space is maintained between every two adjacent rows of drums to facility access to the drum in case of a spill or emergency.

G. Arrangements with Local Authorities (40 CFR 265.37)

A copy of the facility's contingency plan and emergency procedures is sent to the local fire department, police, hospital, or any other local agency who is called upon for assistance in case of an emergency at the facility. Each agency is invited to visit the facility to familiarize the agency of the facility operations and emergency procedures.

Details of the local authorities associated with the site are contained in **Attachment I "Contingency Plan"**.



**Used Oil and Material Processing Facility
Permit Renewal Application**

**Attachment I: Contingency Plan &
Emergency Procedures**

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Application Date: September 1, 2022

Last Reviewed On:

**2 August 2 22
(Revision)**

Prepared by:

**Randy Troy
Environmental, Transportation, Safety, Compliance Specialist
Triumvirate Environmental Services, Inc.**

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Introduction

Purpose

The purpose of this plan is to minimize hazards to human health and the environment from fire, explosion, and/or any unplanned sudden release of hazardous materials or waste to the environment. This plan is to be implemented immediately whenever there is a fire, explosion, and/or sudden release of material / waste that could threaten human health and/or the environment.

This document establishes a Contingency Plan and Emergency procedures that complies with the following permits and licenses.

- a. FDEP Hazardous Waste Transporter/Transfer Facility
No. FLD 981 018 773
- b. FDEP Used Oil / Solid Waste Processing Facility No. 77390-HO-007
- c. BCEPD Hazardous Materials Storage Facility No. ST-00055-10
- d. BCEPD Hazardous Materials Transfer Facility No. HTS-0055-11-01

.2 Scope

This contingency plan and emergency procedures was developed in accordance with:

Code of Federal Regulations: 40 CFR 262.34, 264.52, 265.52
Florida Administrative Code: 62-730.171(2)(a) [40 CFR 265 Subpart C&D]
Broward County Codes: 27-306(b)(8), 27-368(c)(4)(e), 27-368(d)(3)(f)

Responsibilities

The General Manager or his designee is responsible for modifying this plan, as needed, to reflect changes in facility operations and/or county, state, or federal regulations. The General Manager or his/her designee is responsible for the implementation of this plan in the event of an emergency and/or accidental release of material/waste. The General Manager is responsible for ensuring that all employees are familiar with the content of this plan and are able to implement it, if needed.

The General Manager is responsible for ensuring that this plan is posted and accessible to all employees. In the absence of the General Manager, the Operations Manager is responsible for implementing the plan in the event of an emergency and/or accidental release of material / waste.

All plant employees are responsible for reading, understanding, and implementing this plan in the event of an emergency and/or accidental release of material / waste.

2. General Information

Facility Name: Triumvirate Environmental Services, Inc. (TESI)

Facility Location: 3670 SW 47th Avenue
Davie, FL 33314

Office Address: 3701 SW 47th Avenue, Suite 109
Davie, FL 33314

EPA ID Number: FLD 981 018 773

Facility Activities: Used Oil / Solid Waste Processing, 10 Day Hazardous Waste Transfer Facility, Biomedical Waste Storage Facility

Implementation of Contingency Plan

The provisions of this plan will be carried out immediately whenever there is a fire, explosion, or sudden release of hazardous material / waste to the environment.

Arrangement with Local Emergency Response Agencies

Arrangements with local authorities have been established by providing the Davie Police Department, Davie Fire Department, Plantation General Hospital, and Broward General Hospital with a copy of this plan and a letter requesting their assistance in the event of an emergency. Refer to Appendix A for a copy of all correspondences. In the event of a revision of this plan, a copy will be submitted to the above referenced agencies.

Copies of the Contingency Plan

A copy of the Contingency Plan and all associated revisions will be maintained at the facility and the office. A copy of the plan will be submitted to the Davie Police Department, Davie Fire Department, Plantation General Hospital, and Broward General Hospital. Additional copies of this plan are available from the General Manager.

Amendments to Contingency Plan

This plan will be revised, if necessary, whenever:

- a. Applicable ordinances or regulations are revised;
- b. The plan fails in an emergency;
- c. The facility changes in a manner that materially increases the potential for fires, explosions, or the release of hazardous materials / waste, or changes the response necessary in an emergency,
- d. The Emergency Coordinators change,
- e. The list of emergency equipment changes.

In the event of revisions to this plan, a revised copy will be submitted to the authorities identified in Section 4.0. A revised copy of this plan will also be maintained at the facility and office.

Emergency Coordinators

The following identifies the facility's primary and alternate emergency coordinators (EC):

Primary: John P. "Shawn" Lennon, Jr.
General Manager
(954) 583-3795 (office)
(954) 296-3873 (cell/Home)

Work - 3670 S.W. 47th Avenue, Davie, FL 33314

Alternate: Ryan Mohansingh
Operations Manager
(954) 583-3795 (office)
(954) 607-3204 (cell/Home)

Work - 3701 S.W. 47th Avenue, Suite 109, Davie, FL 33314

At all times, there will be at least one EC either at the facility or on call who is available to respond to an emergency by reaching the facility within a short period of time (1 hour drive) and has the responsibility of coordinating all emergency response activities. The EC will be familiar with all aspects of this plan, all operations, and activities at the facility, the location and characteristics of the waste handled, the location of all records within the facility, and the facility layout. Additionally, the EC has the authority to commit the resources needed to carry out this plan.

Emergency Procedures

Identifying Releases and Hazards

Whenever there is a release, fire, or explosion, the EC will immediately identify the characteristics, exact source, amount, and a real extent of any released material / waste. The EC will do this by observation or review of facility records/manifests and, if necessary, by chemical analyses.

Concurrently, the EC will assess possible hazards to human health or the environment that may result from a release, fire, or explosion. This assessment will consider both direct and indirect effects of a release, fire, or explosion such as toxic gases, or the effect of any hazardous surface water runoff from water or chemical agents used to control the situation.

.2 Notification and Reporting

Whenever there is an imminent or actual emergency, the EC or his designee, will immediately activate the facility communication system and notify all facility personnel. The facility communication system includes a telephone, a two-way radio system, and horn signals. The EC will also notify the following agencies as indicated:

- a) Town of Davie Fire Department via 911 (**Immediately**)
- b) DPEP via 954/765-4900 (**within 2 hours**)
- c) Florida Dept. of Environmental Protection via 561/681-6600
 - i. (**within 2 hours**)
- d) Florida Division of Emergency Management (or Florida State Warning Point) via 850/413-9911 or 800/320-0519 (**within 2 hours**)

Notification of additional local authorities listed in Appendix B may be conducted, as deemed necessary by the EC.

If the EC determined that the facility has had a release, fire, or explosion which could threaten human health or the environment outside the facility boundaries, he will report his findings as follows:

- a. If the EC's assessment indicated that the evacuation of the local area may be advisable, he will notify the local authorities identified above. Additional assistance from local authorities listed in Appendix B may be obtained as deemed necessary by the EC. The EC will be available to assist local authorities in deciding whether evacuation of the immediate area is needed.

- b. The EC will immediately notify the National Response Center at 800/424-8802 and report the following information:
 - i) Name and telephone number;
 - ii) Name and address of facility;
 - iii) Time and type of accident;
 - iv) Name and quantity of material involved and to the extent known;
 - v) Possible hazards to human health and the environment, outside the facility boundaries.

Emergency Procedures

During an emergency, the EC will take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, or spread to other hazardous material / waste at the facility. These measures may include stopping operation, collecting and containing released material / waste, and removing or isolating containers. If the facility stops operating, the EC will monitor for leaks, pressure build up, or rupture in valves, pipes, etc...

After an emergency, the EC will provide for treatment, storage, and disposal of recovered material / waste including contaminated soil, water, or other material. The treatment, storage, and disposal of recovered material / waste will be conducted in accordance with applicable local, state, and federal regulations. Waste management companies utilized in the treatment, storage, and disposal of recovered material / waste will be chosen at the EC's discretion. The EC will ensure that, in the affected areas of the facility, no material/waste is incompatible with the released materials until clean-up procedures are completed. All emergency equipment listed in this plan (Appendix C) will be cleaned, if necessary, and fit for its intended use before operations are resumed.

Emergency Equipment

A list of emergency equipment available on site is contained in Appendix C.

Evacuation of Facility

The EC is responsible for determining which emergencies require evacuation. The EC may deviate from the evacuation procedures identified below if necessary to bring the situation under control. An evacuation route map and a site location map are illustrated in Appendix D and E respectively. In the event of a plant evacuation, the following steps will be taken:

- a. The signal for evacuation will be given which consists of three long blasts of the air horn. The two-way radio system will be used to notify/divert incoming drivers.
- b. All vehicle traffic within the Plant will cease. Visitors, contractors, and customers will no longer be allowed in the facility.
- c. All personnel, visitors, contractors, and customers will immediately leave through the main gate.
- d. No persons will be allowed to enter the plant without authorization from the EC and senior fire department representative.
- e. All persons evacuating the plant will assemble southwest of the plant on the west side of SW 47th Avenue at a point chosen by the EC. The assembly point will be within the vicinity of the location identified on the evacuation route map. (Appendix D).
- f. The EC will conduct a head count to confirm that all persons within the facility are present. Any person not accounted for will be immediately reported to the senior fire department representative.
- g. After the emergency, no personnel will be allowed to re-enter the plant until authorization is obtained from the senior fire department representative and the EC.

Recordkeeping

The EC will submit a written closure plan to the Broward County Department of Planning and Environmental Protection within 5 days of the incident.

The EC will notify the Florida Department of Environmental Protection in writing before operations resume:

- a. In the affected area(s) of the facility, no material/waste is incompatible with the released material, and
- b. All emergency equipment listed in this plan is clean and fit for its intended use.

The EC will document in the facility's operating record the time, date, and details of any incident that required the implementation of this plan. Within 15 days after the incident, the EC will submit a written report on the incident to the Florida Department of Environmental protection. The report will include the following information:

- a. Name, address, and telephone number of the owner/operator.
- b. Name, address, and telephone number of the facility,
- c. Date, time, and type of incident,
- d. Name and quantity of materials involved,
- e. The extent of injuries, if any,

- f. An assessment of actual or potential hazards to human health and the environment, if any,
- g. Estimated quantity and disposition of recovered material resulting from the incident.

Appendix A

Correspondence with Local Authorities

Appendix B

Emergency Contact List

Phone Numbers of Local Authorities, Agencies, Etc.

Local Authority / Agency	Phone Numbers	Contact Period
Davie Fire Department Non-Emergency Number	911 (954) 797-1213	Immediately
Davie Police Department Non -Emergency Number	911 (954) 693-8200	Immediately
Emergency Medical Service	911	As Needed
Broward County Environmental Protection and Growth Management Department	(954) 519-1260	Within 24 hours
Florida Department of Environmental Protection – Southeast District Office	(561) 681-6600	Within 24 hours
Florida Division of Emergency Management (aka Florida State Warning Point)	(850) 413-9911 (800) 320-0519	Within 24 hours
National Response Center	(800) 424-8802	As Needed
Plantation General Hospital (Primary)	(954) 587-5010	As Needed
Broward General Hospital (2ndary)	(954) 355-4400	As Needed
Primary Emergency Coordinator John P. “Shawn” Lennon, Jr. General Manager Address: 9140 SW 49 St., Cooper City, FL. 33328	(954) 583-3795 (office) (954) 296-3873 (cell)	
Alternate Emergency Coordinator Ryan Mohansingh Operations Manager Address: 6240 NW 41 st Ter. Coconut Creek, FL 33073	(954) 583-3795 (office) (954) 607-3204 (cell)	
Outside Cleanup Contractor: US Ecology 6900 NW 12 th Ave Fort Lauderdale, FL 33309	(954) 957-7271	As Needed

Appendix C

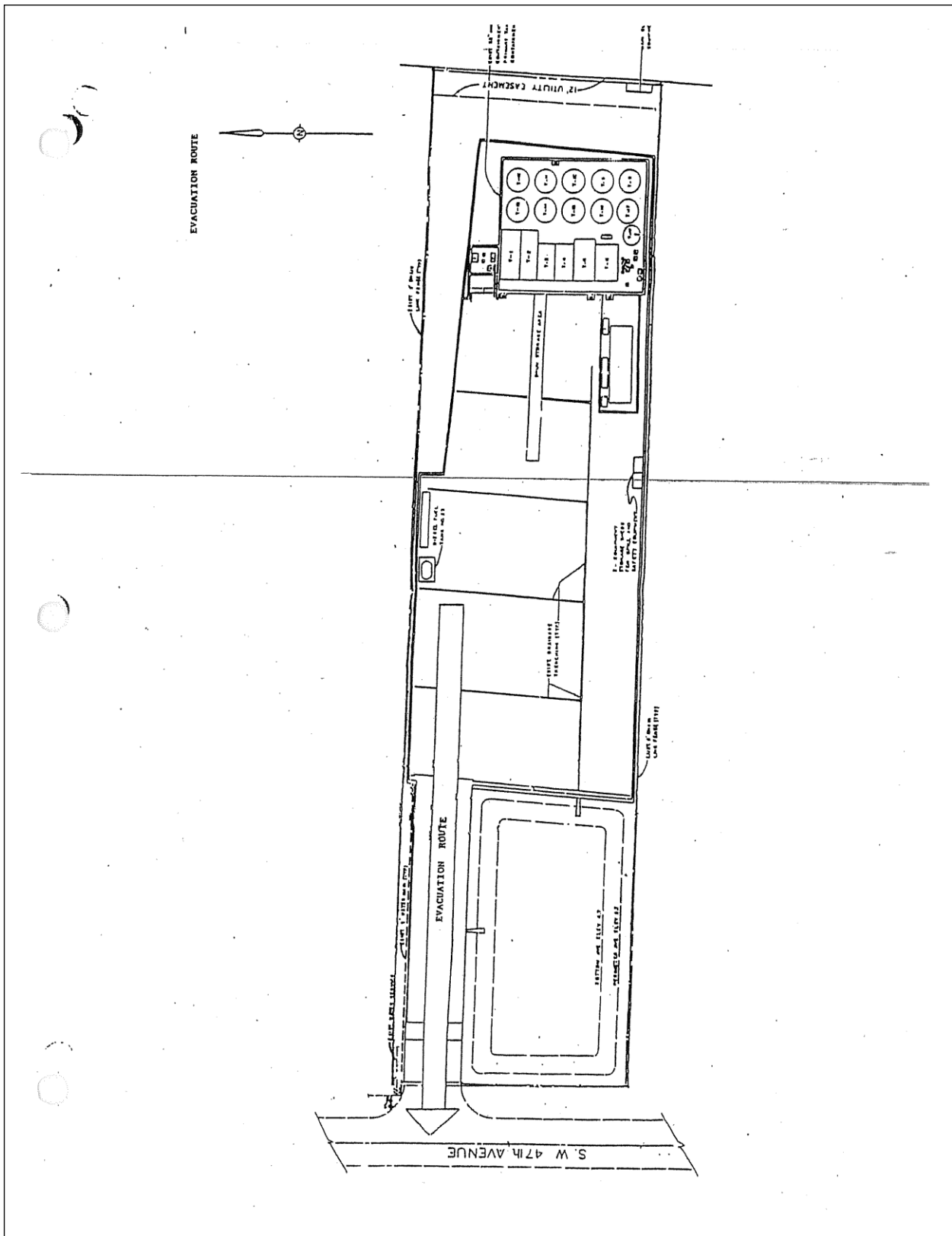
Facility Emergency Equipment

Equipment	Quantity	Type	Capabilities
Communication System	2	Telephone, Radio	Call Emergency Responders/Numbers. Alert workers
Fire Alarm	1	Horn	Warn in case of Fire
Fire Hydrants	1	Water	Put out fire
Fire Extinguisher	9	ABC (dry chemical)	Put out fire
Safety Shower	1	Water	Clean in case of emergency
Eye Wash	2	Water	Clean in case of emergency
Respirators	2	Full face with cartridges	Purify air
Spill Pads	1 roll	Synthetic	Clean up spill
Spill Kits	7 drums	Clay	Clean up spill
Empty Drums	25 to 100	1A1 Steel	Clean up spill, store material
Spill Pumps	2	Diaphragm	Pump up material
First Aid Kits	1	Industrial	Provide First AID
Pressure Washer	2	2,500 psi	Clean up area/spill

Refer to the enclosed referenced facility map for the location of the above referenced equipment.

Appendix D

Evacuation Route Map



Appendix E

Site Location Map

Site Layout Photograph

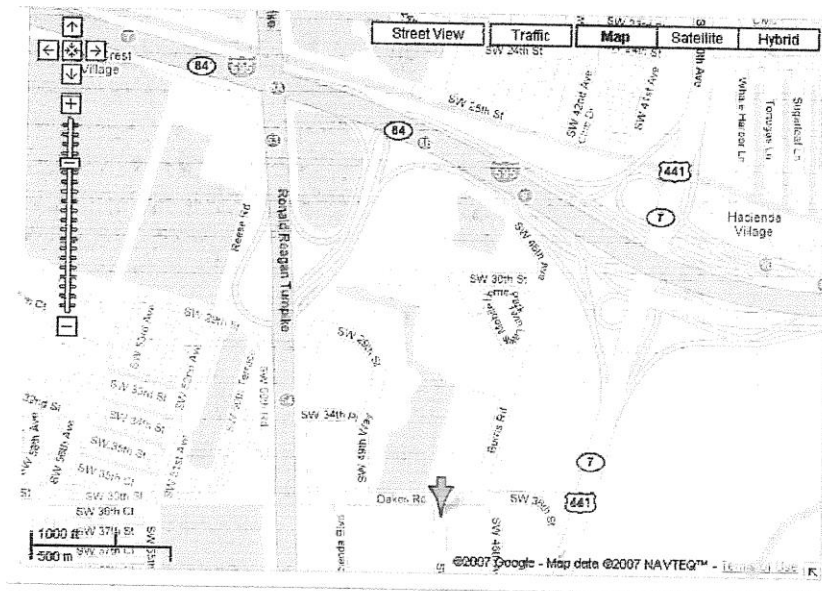


Figure 1A – Site Location Map

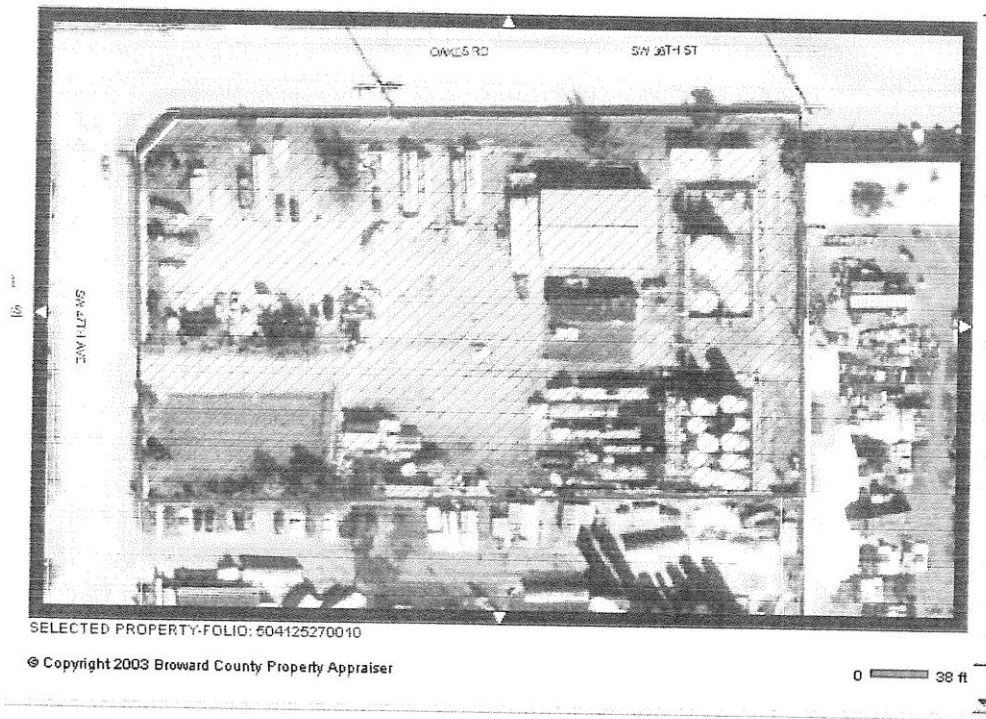


Figure 1B – Site Layout Photo

Appendix F

Material Inventory List

Product	Time On Site	Average uantity
No. 5 Fuel Oil	Continuous	50,000 gallons
No. 2 Fuel Oil	Continuous	8,000 gallons
Diesel Fuel	Continuous	1,000 gallons
Paint & Paint Thinners	10 Days or Less	1,500 gallons

Note: Refer to attached material safety data sheet for information about the above referenced products.

Appendix G

Material Safety Data Sheets



MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil

MSDS No. 0332

EMERGENCY OVERVIEW

CAUTION!

COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT
EFFECTS CENTRAL NERVOUS SYSTEM
HARMFUL OR FATAL IF SWALLOWED



NFPA 704 (Section

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation. Long-term, repeated exposure may cause skin cancer. If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

1. CHEMICAL PRODUCT and COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): CHEMTREC (800) 424-9300
COMPANY CONTACT (business hours): Corporate EHS (732) 750-6000
MSDS Internet Website: www.hess.com

SYNONYMS: #5 Fuel Oil; 5 Oil; High and Low Sulfur No. 5 Fuel Oil
See Section 16 for abbreviations and acronyms.

2. COMPOSITION and INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.)	CONCENTRATION PERCENT BY WEIGHT
Fuel Oil, Residual (68476-33-5)	100

A complex combination of heavy (high boiling point) petroleum hydrocarbons. The amount of sulfur varies with product specification and does not affect the health and safety properties as outlined in this Material Safety Data Sheet.

3. HAZARDS IDENTIFICATION

EYES

Contact with eyes may cause mild to moderate irritation.

SKIN

May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. May cause dermal sensitization.

INGESTION

This material has a low order of acute toxicity. If large quantities are ingested, nausea, vomiting and diarrhea may result. Ingestion may also cause effects similar to inhalation of the product. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

INHALATION

Because of its low vapor pressure, this product presents a minimal inhalation hazard at ambient temperature. Upon heating, fumes may be evolved. Inhalation of fumes or mist may result in respiratory tract irritation and central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

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MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil

MSDS No. 0332

containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use gasoline or solvents (naphtha, kerosene, etc.) for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

OTHER/GENERAL PROTECTION

Petroleum industry experience indicates that a program providing for good personal hygiene, proper use of personal protective equipment, and minimizing the repeated and prolonged exposure to liquids and fumes, as outlined in this MSDS, is effective in reducing or eliminating the carcinogenic risk of high boiling aromatic oils (polynuclear aromatic hydrocarbons) to humans.

FUEL OIL ASH PRODUCTS

Personnel exposed to ash should wear appropriate protective clothing (example, DuPont Tyvek ®), wash skin thoroughly, launder contaminated clothing separately, and wear respiratory protection approved for use against toxic metal dusts (such as HEPA filter cartridges). Wetted-down combustion ash may evolve toxic hydrogen sulfide (H₂S) - confined spaces should be tested for H₂S prior to entry if ash is wetted.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Components (CAS No.)	Source	Exposure Limits		Note
		TWA/STEL		
Fuel Oil (68476-33-5)	OSHA	5 mg/m ³ (as mineral oil mist) TWA		
	ACGIH	0.2 mg/m ³ (as mineral oil) TWA		A2, skin

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying

SKIN PROTECTION

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont Tyvek QC®, Saranex®, TyChem® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information

RESPIRATORY PROTECTION

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

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No. 5 Fuel Oil

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Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE

Black, viscous liquid

ODOR

Heavy, petroleum/asphalt-type odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE: 370-700 °F (188-371 °C)
VAPOR PRESSURE: <0.004 mm Hg @ 70 °F (21 °C)
VAPOR DENSITY (air = 1): NA
SPECIFIC GRAVITY (H₂O = 1): 0.887 – 0.9725 (API 28.0 – 14.0)
PERCENT VOLATILES: Negligible
EVAPORATION RATE: Negligible
SOLUBILITY (H₂O): Negligible

10. STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY

Based on No. 6 Fuel Oil (a similar product):

Acute dermal LD50 (rabbits): > 5 ml/kg
Primary dermal irritation: slightly irritating (rabbits)
Guinea pig sensitization: mildly sensitizing
Acute oral LD50 (rats): 5.1 ml/kg
Draize eye irritation: mildly irritating (rabbits)

CHRONIC EFFECTS AND CARCINOGENICITY

Carcinogenicity: OSHA: NO IARC: 2B (animal) NTP: YES ACGIH: A2

This material contains polynuclear aromatic hydrocarbons (PNAs), some of which are animal carcinogens. Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

The presence of carcinogenic PNAs indicates that precautions should be taken to minimize repeated and prolonged inhalation of fumes or mists.

MUTAGENICITY (genetic effects)

Materials of similar composition have been positive in mutagenicity studies.

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MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil

MSDS No. 0332

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage and waterways. Report spills and releases, as applicable, under Federal and State regulations.

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options. Combustion ash may be a characteristic hazardous waste.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Fuel Oil, No. 5 Placard:
HAZARD CLASS and PACKING GROUP: 3, PG III
DOT IDENTIFICATION NUMBER: NA 1993
DOT SHIPPING LABEL: Flammable liquid
May be reclassified for transportation as a COMBUSTIBLE LIQUID under the conditions of DOT 49 CFR 173.120(b)(2).



15. REGULATORY INFORMATION

U.S. FEDERAL, STATE and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) or, if not practical, the U.S. Coast Guard with follow-up to the National Response Center, as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 311/312 - HAZARD CLASSES

Table with 5 columns: ACUTE HEALTH, CHRONIC HEALTH, FIRE, SUDDEN RELEASE OF PRESSURE, REACTIVE. Values: X, X, X, --, --

SARA SECTION 313 - SUPPLIER NOTIFICATION

According to the US EPA guidance documents for reporting Persistent Bioaccumulating Toxics (PBTs), this product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372 (US EPA does not provide data on No 5 Fuel Oil which is a blend of 8 oil and 2 oil - the following are estimates based on typical blend ratios):



MATERIAL SAFETY DATA SHEET

No. 5 Fuel Oil

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<u>INGREDIENT NAME (CAS NUMBER)</u>	<u>CONCENTRATION [PARTS PER MILLION (PPM) BY WEIGHT]</u>
Polycyclic aromatic compounds (PACs) Benzo (g,h,i)	1562
perylene (191-24-2)	16.8
Lead (7439-92-1)	0.65
Mercury (7439-97-6)	0.00079
Vanadium (7440-62-2)	2.33
Polychlorinated biphenyls (PCBs)	Though EPA estimates 10% of the residual fuel oil "pool" may have < 50 ppm PCBs (Ref 2), AHC has no reason to believe there are any PCBs in its residual fuel oil products.

CALIFORNIA PROPOSITON 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

<u>INGREDIENT NAME (CAS NUMBER)</u>	<u>Date Listed</u>
Residual Fuel Oil (no CAS Number listed)	10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

Class B, Division 3 (Combustible Liquid)

16. OTHER INFORMATION

NFPA® HAZARD RATING	HEALTH:	0
	FIRE:	2
	REACTIVITY:	0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING	HEALTH:	1*	Slight
	FIRE:	2	Moderate
	PHYSICAL:	0	Negligible
			*Chronic

SUPERSEDES MSDS DATED: 02/28/01

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

ACGIH	American Conference of Governmental Industrial Hygienists	HMIS	Hazardous Materials Information System
AIHA	American Industrial Hygiene Association	IARC	International Agency For Research On Cancer
ANSI	American National Standards Institute (212)642-4900	MSHA	Mine Safety and Health Administration
API	American Petroleum Institute (202)682-8000	NFPA	National Fire Protection Association (617)770-3000
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act	NIOSH	National Institute of Occupational Safety and Health
DOT	U.S. Department of Transportation [General info: (800)467-4922]	NOIC	Notice of Intended Change (proposed change to ACGIH TLV)
EPA	U.S. Environmental Protection Agency	NTP	National Toxicology Program
		OPA	Oil Pollution Act of 1990

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OSHA	U.S. Occupational Safety & Health Administration	STEL	Short-Term Exposure Limit (generally 15 minutes)
PEL	Permissible Exposure Limit (OSHA)	TLV	Threshold Limit Value (ACGIH)
RCRA	Resource Conservation and Recovery Act	TSCA	Toxic Substances Control Act
REL	Recommended Exposure Limit (NIOSH)	TWA	Time Weighted Average (8 hr.)
SARA	Superfund Amendments and Reauthorization Act of 1986 Title III	WEEL	Workplace Environmental Exposure Level (AIHA)
SCBA	Self-Contained Breathing Apparatus	WHMIS	Canadian Workplace Hazardous Materials Information System
SPCC	Spill Prevention, Control, and Countermeasures		

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.



MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil

MSDS No. 0088

EMERGENCY OVERVIEW

CAUTION!

OSHA/NFPA COMBUSTIBLE LIQUID - SLIGHT TO MODERATE IRRITANT - EFFECTS CENTRAL NERVOUS SYSTEM - HARMFUL OR FATAL IF SWALLOWED



NFPA 704 (Section 16)

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation. Long-term, repeated exposure may cause skin cancer.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

1. CHEMICAL PRODUCT and COMPANY INFORMATION

Hess Corporation
1 Hess Plaza
Woodbridge, NJ 07095-0961

EMERGENCY TELEPHONE NUMBER (24 hrs): CHEMTREC (800) 424-9300
COMPANY CONTACT (business hours): Corporate EHS (732) 750-6000
MSDS Internet Website: www.hess.com

SYNONYMS: #2 Heating Oil; 2 Oil; Off-road Diesel Fuel

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and INFORMATION ON INGREDIENTS

Table with 2 columns: INGREDIENT NAME (CAS No.) and CONCENTRATION PERCENT BY WEIGHT. Rows include #2 Fuel Oil (68476-30-2) at 100%, Naphthalene (91-20-3) at Typically 0.1, and a complex combination of hydrocarbons.

3. HAZARDS IDENTIFICATION

EYES

Contact with eyes may cause mild irritation.

SKIN

Practically non-toxic if absorbed following acute (single) exposure. May cause skin irritation with prolonged or repeated contact. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

INGESTION

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

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MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil

MSDS No. 0088

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

WARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY

Similar products have produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

4. FIRST AID MEASURES

EYES

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

SKIN

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or with waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION

Remove person to fresh air. If person is not breathing, provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT:	100 °F (38 °C) minimum PMCC
AUTOIGNITION POINT:	494 °F (257 °C)
LOWER EXPLOSIVE LIMIT (%):	0.6
UPPER EXPLOSIVE LIMIT (%):	7.5

FIRE AND EXPLOSION HAZARDS

OSHA and NFPA Class 2 COMBUSTIBLE LIQUID (see Section 14 for transportation classification). Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

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MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil

MSDS No. 0088

EXTINGUISHING MEDIA

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO2, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

FIRE FIGHTING INSTRUCTIONS

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

6. ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

7. HANDLING and STORAGE

HANDLING PRECAUTIONS

Handle as a combustible liquid. Keep away from heat, sparks, excessive temperatures and open flame! No smoking or open flame in storage, use or handling areas. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Special slow load procedures for "switch loading" must be followed to avoid the static ignition hazard that can exist when this product is loaded into tanks previously containing low flash point products (such as gasoline) - see API Publication 2003, "Protection Against Ignitions Arising Out Of Static, Lightning and Stray Currents."



MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil

MSDS No. 0088

STORAGE PRECAUTIONS

Keep containers closed and clearly labeled. Use approved vented storage containers. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition.

Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks."

WORK/HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION

EXPOSURE LIMITS

Components (CAS No.)	Source	Exposure Limits		Note
		TWA/STEL		
#2 Fuel Oil (68476-30-2)	OSHA	5 mg/m ³ (as mineral oil mist) TWA		
	ACGIH	0.2 mg/m ³ (as mineral oil) TWA		A2, skin
	OSHA	10 ppm TWA		
Naphthalene (91-20-3)	OSHA	10 ppm TWA / 15 ppm STEL		A4, Skin
	ACGIH	10 ppm TWA / 15 ppm STEL		

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

SKIN PROTECTION

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

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**MATERIAL SAFETY DATA SHEET****No. 2 Fuel Oil****MSDS No. 0088****9. PHYSICAL and CHEMICAL PROPERTIES****APPEARANCE**

Red or reddish/orange colored (dyed) liquid

ODOR

Mild, petroleum distillate odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE: 340 to 700 °F (171 to 371 °C)
VAPOR PRESSURE: 0.009 psia @ 70 °F (21 °C)
VAPOR DENSITY (air = 1): > 1.0
SPECIFIC GRAVITY (H₂O = 1): AP 0.87
PERCENT VOLATILES: 100 %
EVAPORATION RATE: Slow; varies with conditions
SOLUBILITY (H₂O): Negligible

10. STABILITY and REACTIVITY**STABILITY:** Stable. Hazardous polymerization will not occur**CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS**

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ®; Fluorel ®

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

11. TOXICOLOGICAL PROPERTIES**ACUTE TOXICITY**

Acute Oral LD50 (rat): 14.5 ml/kg
Acute Dermal LD50 (rabbit): > 5 ml/kg
Guinea Pig Sensitization: negative
Primary dermal irritation: moderately irritating (Draize mean irritation score - 3.98 rabbits)
Draize eye irritation: mildly irritating (Draize score, 48 hours, unwashed - 2.0 rabbits)

CHRONIC EFFECTS AND CARCINOGENICITY

Carcinogenic: IARC: NO NTP: NO OSHA: NO ACGIH: A2
Dermal carcinogenicity: positive - mice

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

This product is similar to Diesel Fuel. IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A) and NIOSH regards it as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MUTAGENICITY (genetic effects)

Material of similar composition has been positive in a mutagenicity study.

12. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas and waterways. Report spills and releases, as applicable, under Federal and State regulations.

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No. 2 Fuel Oil

MATERIAL SAFETY DATA SHEET

MSDS No. 0088

13. DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

14. TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: FUEL OIL, NO. 2
HAZARD CLASS & PACKING GROUP: 3, PG III
DOT IDENTIFICATION NUMBER: NA 1993
DOT SHIPPING LABEL: FLAMMABLE LIQUID

Placard:



May be reclassified for transportation as a COMBUSTIBLE LIQUID under conditions of DOT 49 CFR 173.120(b)(2).

15. REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law.

CERCLA SECTION 103 and SARA SECTION 304 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such.

SARA SECTION 311/312 - HAZARD CLASSES

Table with 5 columns: ACUTE HEALTH, CHRONIC HEALTH, FIRE, SUDDEN RELEASE OF PRESSURE, REACTIVE. Values: X, X, X, --, --

SARA SECTION 313 - SUPPLIER NOTIFICATION

This product may contain listed chemicals below the de minimis levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

CALIFORNIA PROPOSITION 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

Table with 2 columns: INGREDIENT NAME (CAS NUMBER), Date Listed. Row: Residual Fuel Oil (no CAS Number listed), 10/01/1990

CANADIAN REGULATORY INFORMATION (WHMIS)

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MATERIAL SAFETY DATA SHEET

No. 2 Fuel Oil

MSDS No. 0088

Class B, Division 3(Combustible Liquid); Class D, Division 2, Subdivision B (Toxic by other means)

NFPA® HAZARD RATING HEALTH: 0
FIRE: 2
REACTIVITY: 0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS® HAZARD RATING HEALTH: 1 * Slight
FIRE: 2 Moderate
PHYSICAL: 0 Negligible
* Chronic

SUPERSEDES MSDS DATED: 05/24/02

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than
N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

Table with 4 columns: ACRONYM, DESCRIPTION, ACRONYM, DESCRIPTION. Includes entries for ACGIH, AIHA, ANSI, API, CERCLA, DOT, EPA, HMIS, IARC, MSHA, NFPA, NIOSH, NOIC, NTP, OPA, OSHA, PEL, RCRA, REL, SARA, SCBA, SPCC, STEL, TLV, TSCA, TWA, WEEL, WHMIS.

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.

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MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

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EMERGENCY OVERVIEW

CAUTION

OSHA/NFPA COMBUSTIBLE LIQUID SLIGHT TO MODERATE IRRITANT

EFFECTS CENTRAL NERVOUS SYSTEM

HARMFUL OR FATAL IF SWALLOWED

Moderate fire hazard. Avoid breathing vapors or mists. May cause dizziness and drowsiness. May cause moderate eye irritation and skin irritation (rash).

Long term, repeated exposure may cause skin cancer.

If ingested, do NOT induce vomiting, as this may cause chemical pneumonia (fluid in the lungs).

NFPA 704 (Section 16)

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Hess Corporation

Hess Plaza

Woodbridge, NJ

EMERGENCY TELEPHONE NUMBER (24 hrs): CHEMTREC (800) 424-9300

COMPANY CONTACT (business hours): Corporate Safety (732) 750-6000

MSDS INTERNET WEBSITE: www.hess.com (See Environment, Health, Safety & Social Responsibility)

SYNONYMS: Ultra Low Sulfur Diesel (ULSD); Low Sulfur Diesel; Motor Vehicle Diesel Fuel; Diesel Fuel #2; Dyed Diesel Fuel; Non-Road, Locomotive and Marine Diesel Fuel; Tax-exempt Diesel Fuel

See Section 16 for abbreviations and acronyms.

2. COMPOSITION and CHEMICAL INFORMATION ON INGREDIENTS

INGREDIENT NAME (CAS No.) CONCENTRATION PERCENT BY WEIGHT

Diesel Fuel (68476-34-6) 100

Naphthalene (91-20-3) Typically < 0.01

A complex mixture of hydrocarbons with carbon numbers in the range C9 and higher. Diesel fuel may be dyed (red) for tax purposes. May contain a multifunctional additive.

3. HAZARD IDENTIFICATION

EYES

Contact with liquid or vapor may cause mild irritation.

SKIN

May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following acute (single) exposure. Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

INGESTION

The major health threat of ingestion occurs from the danger of aspiration (breathing) of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia (fluid in the lungs), severe lung damage, respiratory failure and even death.

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

Revision Date: 10/18/2006 Page 2 of 7

Ingestion may cause gastrointestinal disturbances, including irritation, nausea, vomiting and diarrhea, and central nervous system (brain) effects similar to alcohol intoxication. In severe cases, tremors, convulsions, loss of consciousness, coma, respiratory arrest, and death may occur.

INHALATION

Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system (brain) effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure, and death.

ARNING: the burning of any hydrocarbon as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products, including carbon monoxide, and inadequate oxygen levels, which may cause unconsciousness, suffocation, and death.

CHRONIC EFFECTS and CARCINOGENICITY

Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposures has not been determined - see Section 11 Toxicological Information.

IARC classifies whole diesel fuel exhaust particulates as probably carcinogenic to humans (Group 2A). NIOSH regards whole diesel fuel exhaust particulates as a potential cause of occupational lung cancer based on animal studies and limited evidence in humans.

MEDICAL CONDITIONS AGGRAVATED BY E POSURE

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis (rash).

FIRST AID MEASURES

EYES

In case of contact with eyes, immediately flush with clean, low-pressure water for at least 15 min. Hold eyelids open to ensure adequate flushing. Seek medical attention.

S IN

Remove contaminated clothing. Wash contaminated areas thoroughly with soap and water or waterless hand cleanser. Obtain medical attention if irritation or redness develops.

INGESTION

DO NOT INDUCE VOMITING. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

INHALATION

Remove person to fresh air. If person is not breathing provide artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: > 125 °F (> 52 °C) minimum PMCC

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

Revision Date: 10/18/2006 Page 3 of 7

AUTOIGNITION POINT: 494 °F (257 °C)
OSHA/NFPA FLAMMABILITY CLASS: 2 (COMBUSTIBLE)
LOWER EXPLOSIVE LIMIT (%): 0.6
UPPER EXPLOSIVE LIMIT (%): 7.5

FIRE AND EXPLOSION HAZARDS

Vapors may be ignited rapidly when exposed to heat, spark, open flame or other source of ignition. When mixed with air and exposed to an ignition source, flammable vapors can burn in the open or explode in confined spaces. Being heavier than air, vapors may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard.

EXTINGUISHING MEDIA

SMALL FIRES: Any extinguisher suitable for Class B fires, dry chemical, CO₂, water spray, fire fighting foam, or Halon.

LARGE FIRES: Water spray, fog or fire fighting foam. Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

FIRE FIGHTING INSTRUCTIONS

Small fires in the incipient (beginning) stage may typically be extinguished using handheld portable fire extinguishers and other fire fighting equipment.

Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA- approved pressure-demand self-contained breathing apparatus with full facepiece and full protective clothing.

Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire fighting foam.

See Section 16 for the NFPA 704 Hazard Rating.

ACCIDENTAL RELEASE MEASURES

ACTIVATE FACILITY'S SPILL CONTINGENCY OR EMERGENCY RESPONSE PLAN.

Evacuate nonessential personnel and remove or secure all ignition sources. Consider wind direction; stay upwind and uphill, if possible. Evaluate the direction of product travel, diking, sewers, etc. to confirm spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Take up with sand or other oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

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(see Section 8).

. HANDLING and STORAGE

HANDLING PRECAUTIONS

Handle as a combustible liquid. Keep away from heat, sparks, and open flame! Electrical equipment should be approved for classified area. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion.

Diesel fuel, and in particular low and ultra low sulfur diesel fuel, has the capability of accumulating a static electrical charge of sufficient energy to cause a fire/explosion in the presence of lower flashpoint products such as gasoline. The accumulation of such a static charge occurs as the diesel flows through pipelines, filters, nozzles and various work tasks such as tank/container filling, splash loading, tank cleaning; product sampling; tank gauging; cleaning, mixing, vacuum truck operations, switch loading, and product agitation. There is a greater potential for static charge accumulation in cold temperature, low humidity conditions.

Documents such as 29 CFR OSHA 1910.106 "Flammable and Combustible Liquids, NFPA 77 Recommended Practice on Static Electricity, API 2003 "Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents and ASTM D4865 "Standard Guide for Generation and Dissipation of Static

Electricity in Petroleum Fuel Systems" address special precautions and design requirements involving loading rates, grounding, bonding, filter installation, conductivity additives and especially the hazards associated with "switch loading." ["Switch Loading" is when a higher flash point product (such as diesel) is loaded into tanks previously containing a low flash point product (such as gasoline) and the electrical charge generated during loading of the diesel results in a static ignition of the vapor from the previous cargo (gasoline).]

Note: When conductivity additives are used or are necessary the product should achieve 25 picosiemens/meter or greater at the handling temperature.

STORAGE PRECAUTIONS

Keep away from flame, sparks, excessive temperatures and open flame. Use approved vented containers. Keep containers closed and clearly labeled. Empty product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose such containers to sources of ignition. Store in a well-ventilated area. This storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code". Avoid storage near incompatible materials. The cleaning of tanks previously containing this product should follow API Recommended Practice (RP) 2013 "Cleaning Mobile Tanks In Flammable and Combustible Liquid Service" and API RP 2015 "Cleaning Petroleum Storage Tanks".

OR /HYGIENIC PRACTICES

Emergency eye wash capability should be available in the near proximity to operations presenting a potential splash exposure. Use good personal hygiene practices. Avoid repeated and/or prolonged skin exposure. Wash hands before eating, drinking, smoking, or using toilet facilities. Do not use as a cleaning solvent on the skin. Do not use solvents or harsh abrasive skin cleaners for washing this product from exposed skin areas. Waterless hand cleaners are effective. Promptly remove contaminated clothing and launder before reuse. Use care when laundering to prevent the formation of flammable vapors which could ignite via washer or dryer. Consider the need to discard contaminated leather shoes and gloves.

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

Revision Date: 10/18/2006 Page 5 of 7

. E POSURE CONTROLS and PERSONAL PROTECTION

E POSURE LIMITS

Exposure Limits

Components (CAS No.) Source T A/STEL Note

Diesel Fuel: (68476-34-6)

OSHA

ACGIH

5 mg/m, as mineral oil mist

100 mg/m₃ (as totally hydrocarbon vapor) TWA A3, skin

Naphthalene (91-20-3)

OSHA

ACGIH

10 ppm TWA

10 ppm TWA / 15 ppm STEL A4, Skin

ENGINEERING CONTROLS

Use adequate ventilation to keep vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces.

EYE/FACE PROTECTION

Safety glasses or goggles are recommended where there is a possibility of splashing or spraying.

S IN PROTECTION

Gloves constructed of nitrile, neoprene, or PVC are recommended. Chemical protective clothing such as of E.I. DuPont TyChem®, Saranex® or equivalent recommended based on degree of exposure. Note: The resistance of specific material may vary from product to product as well as with degree of exposure. Consult manufacturer specifications for further information.

RESPIRATORY PROTECTION

A NIOSH/MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

Use a positive pressure, air-supplied respirator if there is a potential for uncontrolled release, exposure levels are not known, in oxygen-deficient atmospheres, or any other circumstance where an air-purifying respirator may not provide adequate protection.

. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE

Clear, straw-yellow liquid. Dyed fuel oil will be red or reddish-colored.

ODOR

Mild, petroleum distillate odor

BASIC PHYSICAL PROPERTIES

BOILING RANGE: 320 to 690 oF (160 to 366 oC)

VAPOR PRESSURE: 0.009 psia @ 70 oF (21 oC)

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

Revision Date: 10/18/2006 Page 6 of 7

VAPOR DENSITY (air = 1): > 1.0

SPECIFIC GRAVITY (H₂O = 1): 0.83 to 0.88 @ 60 °F (16 °C)

PERCENT VOLATILES: 100 %

EVAPORATION RATE: Slow; varies with conditions

SOLUBILITY (H₂O): Negligible

STABILITY and REACTIVITY

STABILITY: Stable. Hazardous polymerization will not occur.

CONDITIONS TO AVOID and INCOMPATIBLE MATERIALS

Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Keep away from strong oxidizers; Viton ®; Fluorel ®

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

TOXICOLOGICAL PROPERTIES

ACUTE TOXICITY

Acute dermal LD50 (rabbits): > 5 ml/kg Acute oral LD50 (rats): 9 ml/kg

Primary dermal irritation: extremely irritating (rabbits) Draize eye irritation: non-irritating (rabbits)

Guinea pig sensitization: negative

CHRONIC EFFECTS AND CARCINOGENICITY

Carcinogenic: OSHA: NO IARC: NO NTP: NO ACGIH: A3

Studies have shown that similar products produce skin tumors in laboratory animals following repeated applications without washing or removal. The significance of this finding to human exposure has not been determined. Other studies with active skin carcinogens have shown that washing the animal's skin with soap and water between applications reduced tumor formation.

MUTAGENICITY (genetic effects)

This material has been positive in a mutagenicity study.

2. ECOLOGICAL INFORMATION

Keep out of sewers, drainage areas, and waterways. Report spills and releases, as applicable, under Federal and State regulations.

DISPOSAL CONSIDERATIONS

Consult federal, state and local waste regulations to determine appropriate disposal options.

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Diesel Fuel Placard (International Only):

HAZARD CLASS and PACKING GROUP: 3, PG III

DOT IDENTIFICATION NUMBER: NA 1993 (Domestic)

UN 1202 (International)

DOT SHIPPING LABEL: None

Use Combustible Placard if

shipping in bulk domestically

MATERIAL SAFETY DATA SHEET

Diesel Fuel (All Types) MSDS No.

Revision Date: 10/18/2006 Page 7 of 7

REGULATORY INFORMATION

U.S. FEDERAL, STATE, and LOCAL REGULATORY INFORMATION

This product and its constituents listed herein are on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.

CLEAN WATER ACT (OIL SPILLS)

Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.

CERCLA SECTION 302 and SARA SECTION 302 (RELEASE TO THE ENVIRONMENT)

The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.

SARA SECTION 304 / 305 HAZARD CLASSES

ACUTE HEALTH CHRONIC HEALTH FIRE SUDDEN RELEASE OF PRESSURE REACTIVE

SARA SECTION 303 SUPPLIER NOTIFICATION

This product may contain listed chemicals below the *de minimis* levels which therefore are not subject to the supplier notification requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372. If you may be required to report releases of chemicals listed in 40 CFR 372.28, you may contact Hess Corporate Safety if you require additional information regarding this product.

CALIFORNIA PROPOSITION 65 LIST OF CHEMICALS

This product contains the following chemicals that are included on the Proposition 65 "List of Chemicals" required by the California Safe Drinking Water and Toxic Enforcement Act of 1986:

INGREDIENT NAME (CAS NUMBER) Date Listed

Diesel Engine Exhaust (no CAS Number listed) 10/01/1990

CANADIAN REGULATORY INFORMATION (HMIS)

Class B, Division 3 (Combustible Liquid) and Class D, Division 2, Subdivision B (Toxic by other means)

OTHER INFORMATION

NFPA HAZARD RATING HEALTH: 0

FIRE: 2

REACTIVITY: 0

Refer to NFPA 704 "Identification of the Fire Hazards of Materials" for further information

HMIS HAZARD RATING HEALTH: 1 ** Chronic

FIRE: 2

PHYSICAL: 0

SUPERSEDES MSDS DATED: 02/28/2001

ABBREVIATIONS:

AP = Approximately < = Less than > = Greater than

N/A = Not Applicable N/D = Not Determined ppm = parts per million

ACRONYMS:

ACGIH American Conference of Governmental Industrial Hygienists

AIHA American Industrial Hygiene Association

ANSI American National Standards Institute
(212) 642-4900

API American Petroleum Institute
(202) 682-8000

CERCLA Comprehensive Emergency Response, Compensation, and Liability Act

DOT U.S. Department of Transportation
[General info: (800) 467-4922]

EPA U.S. Environmental Protection Agency

HMIS Hazardous Materials Information System

IARC International Agency For Research On Cancer

MSHA Mine Safety and Health Administration

NFPA National Fire Protection Association
(617)770-3000

NIOSH National Institute of Occupational Safety and Health

NOIC Notice of Intended Change (proposed change to ACGIH TLV)

NTP National Toxicology Program

OPA Oil Pollution Act of 1990

OSHA U.S. Occupational Safety & Health Administration

PEL Permissible Exposure Limit (OSHA)

RCRA Resource Conservation and Recovery Act

REL Recommended Exposure Limit (NIOSH)

SARA Superfund Amendments and Reauthorization Act of 1986 Title III

SCBA Self-Contained Breathing Apparatus

SPCC Spill Prevention, Control, and Countermeasures

STEL Short-Term Exposure Limit (generally 15 minutes)

TLV Threshold Limit Value (ACGIH)

TSCA Toxic Substances Control Act

TWA Time Weighted Average (8 hr.)

WEEL Workplace Environmental Exposure

Level (AIHA)

WHMIS Canadian Workplace Hazardous

Materials Information System

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

Information presented herein has been compiled from sources considered to be dependable, and is accurate and reliable to the best of our knowledge and belief, but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained in our written contract of sale or acknowledgment.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material, even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment J: SPCC Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Application Date: September 1, 2022

SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

Triumvirate Environmental (Florida) Inc.

**May 2007
Updated August 2018**

Prepared for:

Triumvirate Environmental (Florida), Inc.

**3670 SW 47th Avenue
Davie, Florida 33312**

Project No. 55:1686

**SPILL PREVENTION, CONTROL,
AND COUNTERMEASURE PLAN**

**Triumvirate Environmental (Florida) Inc.
3670 SW 47th Avenue
Davie, Florida**

MANAGEMENT APPROVAL

This is to certify that I have the authority to commit resources as necessary to implement this Spill Prevention, Control, and Countermeasure Plan.

This Spill Prevention, Control, and Countermeasure Plan will be implemented as herein described.

SIGNATURE:



NAME: Kevin Coulon

TITLE: Vice President Mid Atlantic and South East Region

**DOCUMENTATION OF REVIEW
OF SPCC PLAN
IN ACCORDANCE WITH 40 CFR 112.5(b)**

A review and evaluation of the Spill Prevention, Control, and Countermeasure (SPCC) Plan must be completed at least once every five years.

I have completed a review and evaluation of the Spill Prevention, Control, and Countermeasure Plan for Triumvirate Environmental (Florida) Inc. and will amend the Plan if required.

REVIEW DATE	WILL AMEND	WILL NOT AMEND	NAME, TITLE, AND SIGNATURE OF PERSON REVIEWING THIS PLAN
5/18/2012	X		Sara Gilbert, ETSC
7/6/2012	X		John Wyluda, Lab Services/Compliance Coordinator
9/13/2012	X		John Wyluda, Lab Services/Compliance Coordinator
10/22/2012	X		John Wyluda, Lab Services/Compliance Coordinator
11/14/2014		X	Kyle Lopic, ETSC
4/6/2015	X		Kyle Lopic, ETSC
9/15/2017	X		Brooke Rabe, ETSC
8/1/2018	X		Stanley Stokes, ECS

PROFESSIONAL ENGINEER'S CERTIFICATION

I hereby certify that I, or my authorized representative, have examined the Triumvirate Environmental (Florida) Inc. and, being familiar with the provisions of 40 CFR 112, attest that this Spill Prevention, Control, and Countermeasure Plan has been prepared and amended in accordance with good engineering practices.

Such certification shall in no way relieve Triumvirate Florida of the duty to update and fully implement this SPCC Plan in accordance with the requirements of 40 CFR 112.



Stanley
T Stokes

Digitally signed by Stanley T Stokes
DN: c=US, o=IdenTrust ACES Business Representative, ou=ELLIS AND ASSOCIATES, cn=Stanley T Stokes, 0.9.2342.19200300.100.1.1=A01097C0000014EF4294776000050E1
Date: 2018.08.09 15:58:29 -04'00'

Printed Name:	Stanley T. Stokes, P.E.
Title:	Senior Engineer
Company:	ECS-Florida, LLC
P.E. License No.:	FL P.E. 33251
Date:	<u>August 9, 2018</u>

REVISION HISTORY

Revision #	Date	Description of Change	Pages Affected
0	05/21/2007	Initial Release	
1	05/18/2012	Updated Name Change, Added Revision History Page Added Management Approval Page Added Lat/Long to Section 2 Added Facility Phone Number Section 2.III 2 nd paragraph first word, changed from drummed to containerized Changed All Personnel to Oil-Handling Personnel Removed reference to Training Form in Appendix D and detailed TEFI Training Record Management through Intelex Detailed perimeter fencing Added statement about certification of substantial harm Added FI-specific spill notification statements (5.) to Section 4.I and V Added cooking oil totes and used oil filter containers to inspection procedures Added Local Emergency Contact Phone Numbers, Removed Pager Numbers Added facility specific information to Spill Reporting Form and Discharge Report Form	Several Page iv Page i Page 2 Page 2 Page 3 Page 13 Several Page 14 Page 19 Pages 21, 22 Appendix A Appendix B Appendix C
2	7/6/2012	Removed Containment 6 as containment, replaced with Drum Storage Area (old containment 8) Removed Optional Inspections	Several Appendix D
3	9/13/2012	Added Transformer to inspection list	Several
4	10/22/2012	Updated Table 1 – Summary of Storage Locations	Page 4
5	4/6/2015	Updated Emergency Notification List	Appendix B
6	9/15/2017	Updated Emergency Notification List	Appendix B
7	6/5/18	SPCC P.E. Update	Document Edits

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SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

SECTION 1

INTRODUCTION

In December 1973, the United States Environmental Protection Agency (U.S. EPA) promulgated regulations that established procedures and required equipment to prevent the discharge of oil from non-transportation-related facilities into or upon the navigable waters of the United States. These regulations, which are codified in 40 CFR 112, were issued pursuant to Section 311(j)(1)(c) of the Federal Water Pollution Control Act (as amended). These regulations underwent a major revision on July 17, 2002, and were amended several times since then, including December 5, 2008, with the compliance date being extended several times. The regulations apply to facilities that store petroleum materials in excess of 1,320 gallons above ground (only containers of 55 gallons or more used for storage are counted) and/or facilities that store greater than 42,000 gallons of petroleum materials under ground. This Spill Prevention, Control, and Countermeasure Plan (SPCC Plan or Plan) has been prepared for the petroleum storages within the Triumvirate Environmental (Florida) Inc. facility in Davie, Florida. **Table 1** provides a summary of the petroleum product storages provided at this facility. **Figure 1** shows the facility location. **Figure 2** shows the site layout and petroleum storage areas.

Section 2 of this Plan provides detailed information regarding the facility and its storage locations. Section 3 provides a discussion of facility conformance to the regulations in the format of the regulations. Section 4 provides spill response procedures to be implemented in the event of a spill. Finally, Section 5 provides information regarding the necessity and timing required for SPCC Plan updates.

SECTION 2

FACILITY IDENTIFICATION

FACILITY:	Triumvirate Environmental (Florida), Inc.
FACILITY NAME & LOCATION:	Triumvirate Environmental (Florida), Inc. 3670 SW 47 th Avenue Davie, Florida 33314
FACILITY PHONE NO.	954-791-1327
NAME OF RESPONSIBLE PERSON AT THE FACILITY:	John (Shawn) Lennon, General Manager
DESCRIPTION OF ACTIVITIES:	Facility conducts used oil storage/processing and provides temporary storage (10 days) for hazardous wastes.
PETROLEUM STORAGE CAPACITY:	364,000 gallons, largest tank is 100,000 gallons
GEOGRAPHIC LOCATION:	Latitude 26° 4' 36.6745" Longitude 80° 12' 32.8696"
DESCRIPTION OF NEARBY NAVIGABLE WATER THAT COULD BE IMPACTED:	No navigable waters of the United States are located nearby that could be impacted by this facility. A pond and wetland are located to the northwest of the facility.
DATE OF INITIAL OPERATION	1987

I. Facility Description

Triumvirate Environmental (Florida) Inc. (TEFL) is located within an industrial area of Davie, Florida. The facility covers approximately 2.5 acres, of which approximately 50 percent is covered by concrete, concrete structures, and/or buildings. The remaining portions of the facility are covered by grass and a gravel-surfaced parking area.

TEFL operations consists primarily of two activities: 1) used oil storage/material processing subject to 40 CFR 279 of the Resource Conservation and Recovery Act (RCRA) and 2) the temporary storage (10 days) of hazardous waste subject to 40 CFR 262 of RCRA. The layout of the facility is described by **Figure 2**.

Generators that send to TEFL include automotive repair/maintenance shops/facilities, industrial facilities, paint shops, marinas and ship facilities, environmental cleanup sites, etc.

II. Waste Loading, Unloading, and Storage

Upon entering the facility, trailers and tankers are staged in the concrete parking area of the facility while awaiting access to the loading/unloading stations. Bulk liquids (i.e. oil and/or wastewater) are loaded and off-loaded at the stations located at the southeast end of the facility. Liquids are stored in the tank storage area located in the southeast portion of the facility. Drummed hazardous waste is received and temporarily stored in the 10-day transfer building located on the north side of the office trailer. The building is under roof and secondarily contained by a concrete pad.

III. Waste Processing

Bulk liquids are off-loaded and transferred to various aboveground storage tanks for subsequent processing. Total tank storage capacity is approximately 364,000 gallons. Processing consists of the conversion of used oil into a fuel oil. Fuel oil is subsequently shipped to properly permitted industrial furnaces.

Oily water, off-specification fuel, oil filters, used antifreeze, cooking oil, and other non-hazardous wastes and wastewaters are received at the facility and containerized. The facility also collects used oil filters, which may be in containers from 65 gallons up to 500 gallon capacity. Wastes may be sorted in tanker trucks, drums, totes, dump trailers, and roll-off containers. Drummed non-hazardous waste is shipped to TEFL located in Orlando, Florida for processing and disposal, or is consolidated in roll-offs located on-site for subsequent shipment to approved industrial landfills or incinerators.

The loading stations, aboveground storage tanks, and drum storage areas are provided with secondary containment. Transfer piping is either located in secondary containment areas or is constructed of double-walled piping.

**TABLE 1
SUMMARY OF STORAGE LOCATIONS**

Location	Capacity (gals)	Product Stored	Installation Date	Tank Diameter & Length	Tank Shell Thickness	Secondary Containment	
AST #T1	8,000	Used Oil	01/89	8'x21.5' H	3/8"	#1	
AST #T2	8,000	Used Oil	01/89	8'x21.5' H	3/8"	#1	
AST# T3	6,000	Used Oil	04/89	8'x16' H	3/8"	#1	
AST #T4	6,000	Used Oil/Oily Water	04/89	8'x16' H	3/8"	#1	
AST # T5	10,000	Used Oil	06/87	10'x18' H	3/8"	#1	
AST #T6	9,500	Waste Diesel	06/87	10.5'x14.6' H	3/8"	#1	
AST #T8	20,000	Used Oil and Waste Diesel	06/87	10.5'x31' V	3/8"	#1	
AST #T9	20,000	Used Oil/Oily Water	03/89	10.5'x31' V	3/8"	#1	
AST #T10	20,000	Used Oil	06/87	10.5'x31' V	3/8"	#1	
T11	20,000	Used Oil	06/87	10.5'x31' V	3/8"	#1	
T12	20,000	Used Oil	03/89	10.5'x31' V	3/8"	#1	
T13	20,000	Used Oil	03/89	10.5'x31' V	3/8"	#1	
T14	20,000	Used Oil/Oily Water	03/89	10.5'x31' V	3/8"	#1	
T15	20,000	Used Oil/Oily Water	04/89	10.5'x31' V	3/8"	#1	
T16	20,000	Used Oil/Oily Water	04/89	10.5'x31' V	3/8"	#1	
T17	20,000	Used Oil/Oily Water	04/89	10.5'x31' V	3/8"	#1	
T18 or Mixer	6,500	Out of Service	04/89	8.5'x16' V	3/8"	#1	
T7	10,000	Used Oil/Oily Water	01/93	8'x26' H	3/8"	#2	
T20	1,000	Truck Diesel	Tank Removed from Service				
T21	100,000	Used Oil/Oily Water	06/96	20' x 31' V	3/8"	#4	
T22	20,000	Oil Processing Tank	2014	10' x 35' H		#4	
Drum Storage Building	55-550	Hazardous and non-hazardous waste, occasionally 1-20 drums of oil filters or other petroleum materials; Cooking Oil Totes 250 to 550 gal	N/A	Variable	Variable	#8	
Storage Area	55-550	Cooking Oil Totes, Oil Filter or Other Petroleum Materials	N/A	Variable	Variable	#3	

H = horizontal tank

V = vertical tank

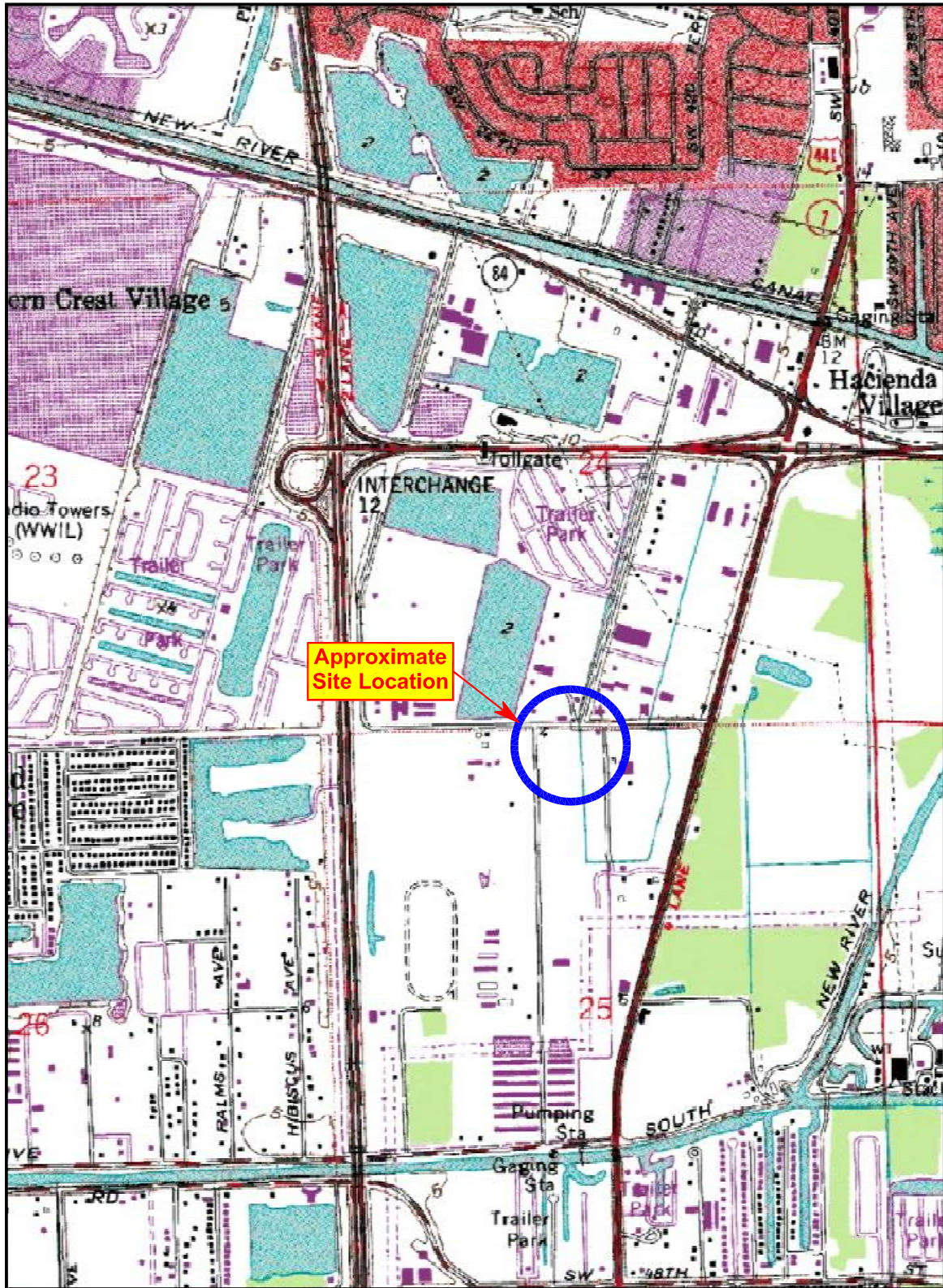
TABLE 2

POTENTIAL SPILLS

Source of Spill	Location	Potential Type Of Failure	Estimated Quantity (gallons)	Rate of Spill (gal/hr)	Direction Of Spill	Secondary Containment	Potential for Occurrence
Drum/Container	Storage Area in Building	Complete spillage or rupture of drum	5 to 55	5 to 55	Inside building containment area	Containment #8, concrete	Low as drums are secured
		Leak/puncture	5 to 55	Less than 55			Low to moderate as drums/containers are secured when moved around and are inspected daily
Loading and Unloading Tank Storages	At loading/unloading ramp	Transfer hose uncoupling or breakage	Varies	Varies	Concrete Containment	Containment #3, concrete	Low (personnel are present during all transfers).
Drum/Container	Outside Storage Area	Complete spillage or rupture of drum	5 to 55	5 to 55	Inside building containment area	Containment #8, concrete	Low as drums are secured
		Leak/puncture	5 to 55	Less than 55			Low to moderate as drums/containers are secured when moved around and are inspected daily
Aboveground Storage	At ASTs	Overfilling or tank leakage	100,000 gallons oily water	Varies	Concrete Containment	Containment #1, 2, 4, & 5	Low as personnel are present during filling, high-level alarms provided, and daily volume checks conducted
Transfer Pumps	At ASTs	Discharge/leak	Varies	Varies	Concrete Containment	Containment #1, 2, 4, & 5	Low as personnel are always present
Internal Heating Coils	AST #T7	Discharge/leak	Varies	Varies	Concrete Containment	Containment #2	Low

TABLE 3
SECONDARY CONTAINMENTS

Containment No.	Description	Gross Capacity	Net Capacity	Largest Tank	Freeboard
1	Filled and sealed concrete block walls on concrete slab	74,700	44,400	20,000	10 inches of rainfall
2	Filled and sealed concrete block walls on concrete slab	16,000	14,300	10,000	8 inches of rainfall
3	Concrete walls on concrete slab	36,000 (Approx.)	36,000 (Approx.)	5,000 (tanker truck)	10 inches of rainfall
4	Filled and sealed concrete block walls on concrete slab	135,800	125,000	100,000	10 inches of rainfall
5	Removed				
6	Retention pond with grass soil berms (at entrance driveway)	93,600	93,600	5,000	6 inches of rainfall
7	Concrete	1800	1600	Transfer Pump	Not applicable
8	Warehouse	Not Determined	Not Determined	Drum or Tote Container	Under Roof



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Site Vicinity/Topographic Map
Triumvirate Davie Facility

U.S. Geological Survey 7.5 Minute - Topographic Map
 Fort Lauderdale South, Florida Quadrangle
 Dated 1962, Revised 1983
 Site Boundaries Depicted are Approximate



Date: 08/09/18

Project No.: 55-1686

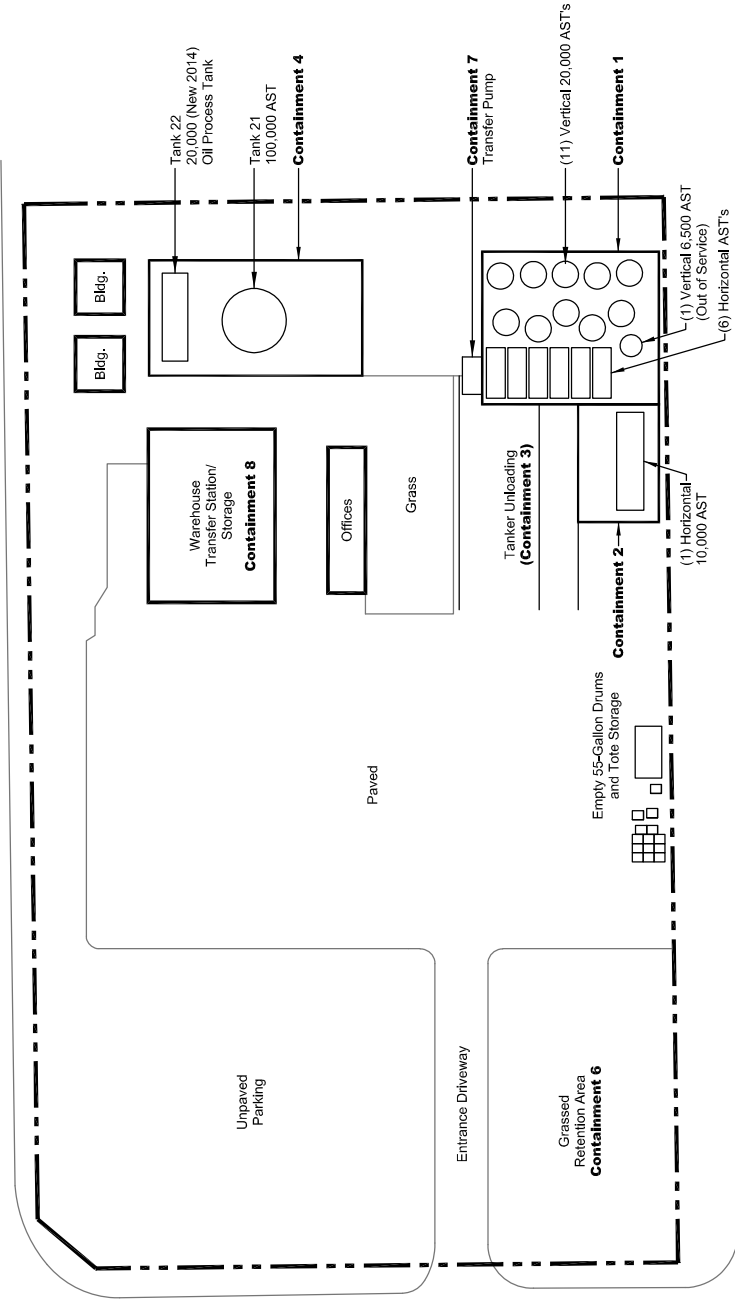
Figure 1

JAS - 55-1686



SW 36th Street

SW 47 Avenue



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Site Plan
Triumvirate Davie Facility
 3670 SW 47th Avenue
 Davie, Florida

Project No.: 55-1686

Date: 08/09/18

Figure 2

Note:
 Tank 20 and Containment 5 Removed.

SECTION 3

FACILITY CONFORMANCE

Section 112.4 requires certain notifications be made if a facility has a discharge of more than 1,000 gallons of oil in a single discharge or more than 42 gallons of oil in each of two discharges. This section also requires a facility amend the Plan if the Regional Administrator requests amendments to the Plan.

This facility will make required notification when appropriate and will either amend the Plan when requested by the Regional Administrator or will appeal. A copy of this notification will also be sent to the appropriate state agency in charge of the oil pollution control activities (i.e., Florida Department of Environmental Protection). The notification will include the required information listed in Section 112.4 (a)(1) through (9).

Section 112.5(a) requires the amendment of the SPCC Plan when there is a change to the facility design, construction, operation, or maintenance that materially affects its potential for discharge. This includes adding, moving and decommissioning of containers (including tanks) piping and secondary containment. This also includes a change in product or service or the revision of a standard operating or maintenance procedure.

This requirement is discussed in Section 5, SPCC Plan Updates.

Section 112.5 (b) requires a review and evaluation of the SPCC Plan at least once every five years. The completion of the review must be documented and a statement as to whether the Plan will be amended.

The five-year review is discussed in Section 5. The signed statement for this review is provided in page i of the Plan's cover documents. If the SPCC Plan needs to be amended based on this review, the SPCC Plan will be amended within 6 months of the review. Any amendment will be implemented as soon as possible, but not later than 6 months following the Plan amendment.

Section 112.5(c) requires a Professional Engineer certify any Technical Amendments to this Plan.

Any Technical Amendments to this Plan will be certified by a Professional Engineer.

Section 112.6: This regulation provides an option to prepare and self-certify the SPCC Plan for qualified facilities meeting criteria specified in Section 112.3(g).

This facility does not qualify for the self-certification option.

Section 112.7(a)(1) requires a discussion of the facility’s conformance with SPCC Plan requirements.

The Plan developed herein conforms to the regulatory format provided by the regulation. Full approval of management is included in the Plan’s cover documents.

Section 112.7(a)(2) requires a description of non-conforming issues, the reasons for non-conformance and the measures to achieve equivalent environment protection adopted by the facility.

The plan conforms to the requirements listed in Section 112.7. Any issues of non-conformance will be described in the discussion provided in response to the specific requirement.

Section 112.7(a)(3) requires a physical description of the facility, including site diagrams showing container storage locations and contents, transfer stations, piping, and buried tanks;

This information is provided in Section 2 of this Plan, with specific reference to **Figures 1 and 2**. There are no buried petroleum storage tanks at this facility.

i) information defining the types and capacities of oil storage;

This information is provided by **Table 1** in Section 2 of this Plan.

ii) Discharge prevention measures including procedures for routine handling of products;

The procedures for bulk fuel transfer and container handling are provided in **Appendix A** in a format that may be copied and laminated for posting and reference in the product-handling areas.

iii) A description of secondary containment around containers and storage sites;

This information is provided by **Table 3** of Section 2.

iv) Countermeasures for the discovery, response, and cleanup of a discharge;

These procedures are provided by Section 4 of this Plan.

v) Methods of disposal of recovered materials; and

Methods for disposal of recovered material are provided in Section 4 of this plan.

vi) **A contact list and phone numbers for appropriate individuals and agencies to be notified in the event of a spill.**

The contact list is provided in **Appendix B** and may be copied and laminated for posting in key areas.

Section 112.7(a)(4) Unless facility has submitted a response plan under 112.20, provide information and procedures to enable person to accurately report a discharge.

Appendix C provides a form that addresses the required information to be reported. Facility personnel are trained in completing the form and communicating to the relevant agencies. Use of this form is discussed in Section 4 of this Plan.

Section 112.7(a)(5) requires Plan organization that describes procedures to be used when a discharge occurs in a way that makes them readily usable in an emergency, and include appropriate supporting material as appendices..

This Plan is organized in the above manner. This Plan incorporates training and the use of one-page sections that can be easily referenced and used. TEFL uses an electronic training database to manage personnel training requirements.

Section 112.7(b) requires a prediction of spill flow direction, rates of flow, and quantities that could be discharged.

Experience indicates there is a low potential of tank failure (such as overflow, rupture, and leakage) at the facility. This can be attributed to several factors:

1. Tanks operate at ambient temperature and pressure and are equipped with the level gauges and an overflow alarm and secondary containment.
2. Piping and valves are not in areas exposed to vehicular traffic.
3. The tanks, pumps, valves, and piping are inspected daily with inspection findings recorded in facility inspection logs.
4. All tanks were thickness tested by a professional engineer in 2002.

Spillage of material is most likely to occur during tank transfer. However, the quantity of material that would typically be spilled is small. Personnel are required to be present during transfer, and transfer activities are conducted in contained areas provided with concrete barriers and elevation controls to prevent migration and to facilitate cleanup. In the unlikely event of a release of material and failure of the secondary containments, it appears that a spill would flow toward the retention pond on the southwest corner of the site property.

Table 2 and the site layout sketch (**Figure 2**) provide information on the potential for spills.

Section 112.7(c) requires provision of containment system and/or diversionary structures or equipment capable of containing a spill and must be constructed so that any discharge from a primary containment system will not escape the containment system before cleanup occurs. At a minimum, you must use one of the following or its equivalent: dikes, berms, retaining walls, curbing, drip pans, sumps and collection systems, culverting, gutters, weirs, booms, other barriers, spill diversion ponds, retention ponds, or sorbent materials.

This facility provides secondary containment as follows:

- Tanks 1 through 6, and 8 through 18, are served by Containment #1.
- Tank 7 is served by Containment #2.
- The tanker truck loading/off-loading bays are served by Containment #3.
- Tanks 21 and 22 are served by Containment #4.
- Tank 20 and Containment #5 were removed.
- The driveway and approach to the load/off-load bays are served by Containment #6 (the retention pond).
- A transfer pump is served by Containment #7.
- The drum storage building is served by Containment #8.

Section 112.7(d) requires a clear explanation if you determine that installation of certain specified structures or equipment is not practicable. For bulk containers, conduct both periodic integrity testing of the containers, conduct periodic integrity and leak testing of valves and piping, development of an oil spill contingency plan in cooperation with local authorities, and a written commitment of adequate response resources if structural secondary containment can not be provided.

This facility provides secondary containment as described by **Table 1 conforming to this requirement.**

Section 112.7(e) requires written procedures and records for periodic inspection and tests of the storage areas and containers.

Appendix E provides an inspection procedure and form for conducting inspections aimed at preventing and detecting spill threats. Records of inspections are kept on file for a minimum of three years. Similarly, records of tests such as container integrity tests are kept on site for a minimum of three years. The General Manager is responsible for implementation of the inspection program, as well as directing corrective measures.

The inspection program is intended to provide a mechanism to prevent and detect system malfunctions, equipment deterioration, and operator errors, and to provide early warning of the potential for such events in order that corrective and preventative actions may be taken. The inspection program focuses on safety, emergency equipment, and environmental monitoring. The program is intended to be implemented by qualified and trained individuals assigned the responsibility to detect any unsafe conditions at the facility and to help prevent adverse consequences. The designated individuals have the training and authority to:

1. Implement the required inspections;
2. Perform necessary evaluations and hazard assessments; and
3. Recommend appropriate corrective or remedial actions.

The inspection is performed daily. Each item listed on the inspection form is evaluated in such a manner and on such a frequency necessary to alert facility personnel prior to the development of a serious problem. The level of response to a problem is determined by the nature and seriousness of the problem identified, with the protection of personnel and the prevention of adverse impact on the environment being of paramount concern.

In addition to the above, Chapter 62-762 F.A.C. requires that field erected tanks be evaluated and the re-testing frequency established and implemented in accordance with API Std 653. As an alternate, field erected tanks with storage capacities of less than 250,000 gallons may be evaluated in accordance with STI SP001, Revised 2011, incorporated by reference in subsection 62-762.411(3), F.A.C., in lieu of API Std 653, November 2014.

Section 112.7(f)(1), (2), and (3) require training of oil-handling personnel at least annually and designation of a person at the facility accountable for discharge prevention.

The Operations Manager is the designated person accountable for discharge prevention. However, the Company Environmental Coordinator, Facility Manager or his/her designee must instruct personnel in the proper operation and maintenance of equipment to prevent petroleum spills. Initial training and annual briefings are provided.

Newly hired operational personnel participate in the TEFL spill prevention and control training program. All employees participate in a regularly scheduled review of the SPCC Plan and its procedures. Facility personnel are trained in general orientation and operation of the facility. An on-the-job training program related to the specific duties of each job function is specifically provided in combination with the standardized written, visual, and audible training. In addition, every operational employee participates in the continuing training to maintain proficiency, to learn new techniques and procedures, and to reinforce safety and quality consciousness.

TEFL conducts annual employee meetings that are used as a forum to reinforce understanding of SPCC Procedures. Past spill events (if applicable) and failures are described, malfunctioning components are discussed, and recently developed or changed procedures or precautionary measures are addressed. Copies of training certificates and a sample training presentation are provided in **Appendix E**. The following summarizes the training program:

Spill Prevention and Countermeasures Plan: Appropriate oil-handling personnel have been instructed in the following spill prevention and countermeasure requirements.

- No tanks, drums, or compartments are to be filled without first verifying the contents and checking tank levels.
- No bulk product deliveries or transfers are to be conducted unattended.
- Documented inspections of containers (drums, totes and tanks) used for oil storage or transfer are to be conducted monthly on the appropriate form.
- Accumulated precipitation shall be inspected for the presence of an oil sheen. If the accumulated precipitation does not have a sheen, it may be pumped to the adjacent paved surface. Accumulated precipitation with an apparent oil sheen will be pumped into drum or tank for processing or disposal. Inspection must be documented on the form in **Appendix F**.
- Containers are to be checked daily for any signs of leaks, deterioration, or vandalism. Visual daily checks of piping, valves, pumps, and hoses are to be made for signs of leaks.
- No phase of material transferring or processing shall be conducted unattended by personnel.

All personnel are trained in:

- The location of emergency spill response materials;
- Containment procedures;
- Fire and explosion response;
- Shutdown of liquid handling equipment; and
- Spill notification procedures.

Section 112.7(g) requires facilities handling, processing, and storing oil to be fully fenced with entrance gates locked or guarded, when the facility is unattended.

All waste-handling and storage facilities are located within the general perimeter of the facility. The facility has an 8 foot tall security fence on the sides facing the roads. The remainder of the facility is surrounded by an eight foot tall steel security fence topped with 3 strands of barbed wire. Normal and routine access to the facility is monitored by plant personnel. The access gate is closed and locked during non-working hours.

Section 112.7(g) requires the facility to provide site security and prevent unauthorized access to system controls.

All containment systems, valves, piping, and electrical control systems are located within the areas controlled by the security fence. Adequate lighting is provided at all loading, unloading, and processing areas that are operated during nighttime hours.

Section 112.7(h)(1) requires use of quick drainage systems when drainage from loading/unloading areas not provided with catchment.

The loading/unloading area is located in Containment #3, which provides approximately 36,000 gallons of secondary containment.

Section 112.7(h)(2) requires measures to prevent vehicles from departing before complete disconnection of transfer lines.

Loading and unloading procedures meet the requirements of the Department of Transportation (DOT) for the transfer of hazardous and non-hazardous materials. Personnel are trained in accordance with DOT and OSHA requirements. A copy of these procedures is provided in **Attachment A**.

Section 112.7(h)(3) requires inspection of the lower-most drain and all outlets prior to filling and departure of any tank truck to prevent spillage on site or during transit from the site.

The inspection of the lowermost drain is required by the bulk load/unloading procedures of **Appendix A**.

Section 112.7(i) requires evaluation of a container for risk of failure due to brittle fracture upon repair, alteration, reconstruction, or change of service.

If an aboveground tank undergoes a repair or alteration that might affect the risk of a discharge due to brittle failure, the tank will be evaluated by a tank or materials engineer prior to being placed back in service. Repairs, alterations, and evaluations are typically conducted by a qualified contractor rather than facility maintenance personnel.

Section 112.7(j) requires discussion of more stringent State rules.

The Florida Department of Environmental Protection regulates above ground storage tanks in accordance with Chapter 62-762 F.A.C. The regulations require facility registration with annual fees, incorporate design standard, release detection, repairs, operation, maintenance, and recordkeeping. The State of Florida rules regarding oil spill reporting are discussed in Section 4.

The Florida DEP's regulation 62-762.501(2)(c)3. states, "*Dike field areas with secondary containment shall... conform to Chapter 22 of NFPA 30, 2015 Edition and contain a minimum of 110% of the maximum capacity of the tank or of the largest single walled tank within the dike field area.*"

All secondary containment areas are of sufficient size to contain at minimum 110% of the maximum capacity of the largest tank within the containment area.

Section 112.8(a) requires compliance with Sections 112.7 provisions.

As previously addressed, compliance with Section 112.7 provisions has been established.

Section 112.8(b)(1) requires control of drainage from diked storage areas by valves or manually activated pumps or ejectors. The condition of the accumulation must be inspected before discharge to ensure no discharge of oil.

No outfalls drain valves are present at the facility. Surface water drainage patterns for the facility prevent entry of drainage from unbermed areas into waters of the United States. Rainwater and/or minor spills within secondary containment areas and truck loading areas are pumped to storage containers for proper management and disposal. Pumps are manually activated. No accumulations of liquid (except for accumulated precipitation with no observable sheen) in secondary containment areas are released to the environment. The Secondary Containment Drainage Procedure is provided in **Appendix F**. The drum storage building is roofed and minimal accumulation of liquids (i.e. rainwater which may enter through facility doors) may be removed by absorbent materials.

Section 112.8(b)(2) limits valve use to manual, open-and-closed design valves. Flapper-type drain valves are not allowed.

No drain valves are provided for the containments.

Section 112.8(b)(3) requires design of facility drainage systems for undiked areas subject to discharge to flow into catchment basins. Catchment basins may not be located in areas subject to periodic flooding.

Catchment #6 is a retention basin provided for catchment of drainage from paved surfaces in the undiked areas over which loaded tanker trucks travel within the facility.

Section 112.8(b)(4) requires that a diversion system be provided if Section 112.8(b)(3) cannot be met.

This section is not applicable to the facility.

Section 112.8(b)(5) requires fail-safe design for systems requiring pumped transfer within treatment systems for drainage waters.

All pumped transfer systems are manually activated and controlled. Facility personnel are present during pumped transfers.

Section 112.8(c)(1) requires the use of containers constructed of oil-compatible materials.

All tanks are constructed of carbon steel, which is an oil-compatible material. Stored materials are stored at ambient temperature and pressure.

Section 112.8(c)(2) requires provision of secondary containment for bulk storage tank installations for the capacity of the largest container to be stored plus precipitation freeboard.

Secondary containment structures constructed of concrete and masonry are provided at the facility for all oil storage tanks. Loading areas are located in secondary containment. The drum storage building is under a roof and is not subjected to precipitation freeboard however the containment exceeds the largest container. Outside drum storage is also provided with secondary containment. All containment areas are of sufficient size to contain the contents of the largest tank or tank truck compartment plus an accumulation of 6 inches or more of precipitation.

Section 112.8(c)(3) requires all dike water discharges to be controlled by: keeping bypass valve closed, inspecting retained rainwater prior to discharge, open and close the valve under responsible management, and keep records of such events.

Dike walls do not include drain valves. Collected water is manually pumped to the adjacent paved surface provided no sheen is present, or to a storage container for proper treatment or management. **Appendix F** provides a form for recording such events, in the event the dike water discharges are deemed acceptable.

Section 112.8(c)(4)&(c)(5) require protection of buried and partially buried metallic storage tanks from corrosion by coatings or cathodic protection backed by periodic leak testing.

There are no underground tanks used for the storage of oil at this facility.

Section 112.8(c)(6) requires integrity testing of aboveground containers by frequent visual inspections and by regularly scheduled non-destructive methods. All inspections and test must be recorded.

All tanks are inspected on a regular basis to assess tank integrity by the Facility Manager or other qualified personnel, as assigned by the Facility Manager to assess tank integrity. Formal daily inspections record:

- Evidence of leaks or spills;
- Condition of tanks;
- Condition of piping and pumps; and
- Condition of secondary containment areas.

These inspections utilize the form provided in **Appendix E**.

Ultrasonic testing of tank shell thicknesses was conducted October 16-28, 2002 to confirm tank integrity. This testing resulted in engineer certification for continued use of all tanks.

In addition to the above, Chapter 62-762 F.A.C. requires that field erected tanks be evaluated and the re-testing frequency established and implemented in accordance with API Std 653. As an alternate, field erected tanks with storage capacities of less than 250,000 gallons may be evaluated in accordance with STI SP001, Revised 2011, incorporated by reference in subsection 62-762.411(3), F.A.C., in lieu of API Std 653, November 2014.

Section 112.8(c)(7) requires monitoring for oil contamination of internal heating coil discharges to open watercourses or the provision of predischARGE storage or treatment.

Internal heating coils are only used on Tank #7. These coils are located inside secondary containment. Steam return is not discharged to an open watercourses.

Section 112.8(c)(8) requires engineering of containers to provide for high level alarms, high liquid level pump cutoff, or manning direct level reading devices. Regular testing of liquid level sensing devices is required.

The possibility of a significant discharge is reduced by the following equipment/processes:

- Direct visual tank level gauges;
- Audible overflow alarm and ancillary overflow containment tank;
- Manned transfer operations; and,
- Regular inspections of tanks and ancillary equipment.

Section 112.8(c)(9) requires observation of effluent treatment facilities frequently enough to detect possible system upsets that could cause a harmful discharge.

There are no plant effluents at this facility.

Section 112.8(c)(10) requires prompt correction of visible discharges.

If it is determined that the integrity of a tank or ancillary equipment is compromised, the tank or equipment is taken out of service, the problem evaluated, and appropriate steps taken to correct the deficiencies.

Section 112.8(c)(11) requires provision of secondary containment for mobile containers.

Tanker trucks containing waste materials are parked in the area served by Containments #3 or #6.

Section 112.8(d)(1) requires cathodic protection and protective wrapping and coating of piping installed or replaced on or after 8/16/02. Inspection for corrosion of buried piping exposed for any reason is required. Corrosion damage must be repaired.

The facility uses no underground piping for petroleum materials.

Section 112.8(d)(2) requires capping or blank flanging of transfer piping when not in service. The transfer piping must also be marked as to the origin.

Out-of-service piping shall be removed, capped, or blank flanged.

Section 112.8(d)(3) requires proper design of piping supports to minimize abrasion and corrosion and allow for expansion and contraction.

Piping supports are designed to allow for expansion and contraction while minimizing abrasion and corrosion.

Section 112.8(d)(4) requires regular inspection of valves, piping, and appurtenances.

All valves and fittings are periodically inspected for leaks (**Appendix E**). Pipelines, valves, and piping are manned during material transfers.

Section 112.8(d)(5) requires signs warning vehicles entering the facility of the presence of overhead piping.

No overhead piping in traffic ways is present at the facility.

Section 112.20(a) requires the owner or operator of a facility that, because of its location, could reasonably be expected to cause substantial harm to the environment by discharging oil into navigable waters to submit a facility response plan to the Regional Administrator. Section 112.(f)(1) and Attachment C-1 provide criteria to determine if the facility “could reasonably be expected to cause substantial harm.”

The “Certification of Substantial Harm Determination Form” in **Appendix G** demonstrates that a Facility Response Plan is not required for this facility.

SECTION 4

SPILL RESPONSE PROCEDURES

Response to spills is conducted according to the procedures detailed in the following subsections. It must be noted that, if several personnel respond to an incident, many of the following procedures can be conducted concurrently. For example, while one person is following the emergency notification procedures, other personnel could be implementing actions to contain the spill.

I. Spill Notification Procedure

Upon the discovery of a spill, the following notifications must be made.

1. The Facility Manager (Primary Emergency Coordinator) must be notified immediately. If he/she cannot be located, then one of the Alternate Emergency Coordinators or the Company Environmental Coordinator should be called. (See **Attachment B** for phone numbers.) The person who discovers the spill should be prepared to give the following information:
 - his/her name and position with the company;
 - material spilled and estimated amount;
 - source and cause of the spill, if known;
 - area affected;
 - time the spill was first observed; and
 - actions initially taken.

2. The Primary Emergency Coordinator (Facility Manager), First Alternate Emergency Coordinator (Operations Manager), and the Designated Company Environmental Coordinators are the only persons authorized to make agency notifications. If the facility has released petroleum materials off site in harmful quantities as defined in 40 CFR 110.3 (i.e., it has caused a sheen or discoloration on any water body), an authorized person shall report the incident to the regulatory agencies listed in the Emergency Notification Sheet in **Appendix B**. In reporting, the authorized person shall be prepared to give the following information:
 - his/her name and position with the company;
 - facility name, location, and phone number;
 - material spilled and amount;
 - source and cause of the spill, if known (do not speculate);
 - area affected;
 - time the spill was first observed;
 - extent of injuries, if any;
 - any evacuation precautions taken;
 - response actions conducted, including containment and cleanup underway;

- estimated time to complete remediation;
 - potential hazards to human health or the environment; and
 - names of other individuals and organizations contacted.
3. For a release greater than 42 gallons into the environment (i.e., soil, water), the authorized person shall determine if the emergency response contractor should be contacted for cleanup assistance.
 4. If the facility has discharged oil into or onto the navigable waters of the United States in any of the following quantities:
 - more than 1,000 gallons in a single spill event, or
 - more than 42 gallons in each of two spill events within a 12-month period,
 an authorized company representative must submit a written report as described in subsection IV of this Section.
 5. Florida has specific reporting requirements:
 - a) A discharge of any amount of a pollutant (this includes oil) that enters, or threatens to enter, waters of the state must be reported as soon as possible, but no later than one hour after the discovery of the occurrence to the NRC and the FL State Warning Point phone number in **Appendix B**.
 - b) A discharge of 25 gallons of oil or more to a “pervious” surface must be reported as soon as possible, but no later than 24 hours. The discharge must be removed and properly treated, disposed, or remediated.

II. Response Preparation

Appropriate containment/spill response equipment is kept in close proximity to all potential spill areas. A sufficient supply of this material should be available to all locations to ensure that potential off-site migration pathways can be adequately protected. The materials to be located near potential spill areas include:

- a (55-gallon) drum containing:
 - materials suitable for absorbing petroleum products (e.g. kitty litter, corn cobs, oil-dri, absorbant socks or pads, etc);
 - plastic (or other non-sparking material) shovel or scoop;
 - chemical resistant gloves, protective aprons, safety glasses or goggles, and/or other appropriate personal protective equipment;
- sandbags;
- fire extinguishers;
- shovels, squeegees, and brooms, pipe wrench, drum plug wrench;
- salvage drums and overpacks.

III. Response Procedure

Upon detection of a spill, trained personnel responding will immediately:

- put on proper personal protective equipment, which, at a minimum, includes chemical-resistant gloves and a rubber apron (or equivalent);
- identify the source and cause of the spill;
- take appropriate measures to stop the flow of material (e.g., reconnect hose, plug hole, shut valve, transfer liquid to an empty drum, etc.);
- quickly estimate the magnitude of the spill;
- using absorbent material, sandbags, or similar material, block drainage ways, if there is a potential for material to flow off the property;
- contain any material, using cleanup and containment equipment, that may have escaped the storage vessel;
- recover and containerize spilled material (as much as possible) into a drum or container and dispose of properly to a landfill permitted for such material, to a recycler capable of processing off-specification oil, or to a recycler permitted for disposal;
- decommission the tank (if the spill was from a tank) and schedule it for repair after the cause of the spill or failure has been determined; and
- obtain assistance from a spill cleanup contractor if it is determined that a spill is beyond the control and/or contamination outside the facility has occurred.

After the spill has been contained and cleaned up, the Primary Emergency Response Coordinator (Facility Manager), the Alternate Emergency Response Coordinator (Operations Manager), or the designated Company Environmental Coordinator must ensure that all spill response equipment is restocked and ready for usage.

IV. Written Agency Notification

If the facility has released petroleum materials off site in harmful quantities, which means it has caused a sheen or discoloration on any navigable waters of the United States, the Company Environmental Coordinator should report the incident to the National Response Center using one of the forms provided in **Appendix C**.

If the facility has discharged oil into or on the navigable waters of the United States in any of the following quantities:

- more than 1,000 gallons in a single spill event, or
- more than 42 gallons in each of two spill events within a 12-month period,

The Company Environmental Coordinator (or designee) must submit a written report to the Regional Administrator of the Environmental Protection Agency, Region IV within 60 days. The report shall contain the information provided by the form in **Appendix C**.

Florida has specific reporting requirements. These include:

- a) A discharge of any amount of a pollutant (this includes oil) that enters, or threatens to enter, waters of the state, and
- b) A discharge of 25 gallons or more of oil to a “pervious” surface.

The written report must be submitted on Florida Discharge Report Form 62-761.900(1), which is provided in **Appendix C**. A copy of any report sent to the Regional Administrator must also be submitted to the Florida Department of Environmental Protection.

SECTION 5

SPCC PLAN UPDATES

Section 112.5(a) requires the amendment of the SPCC Plan when there is a change to the facility design, construction, operation, or maintenance that materially affects its potential for discharge. This includes adding, moving and decommissioning of containers (including tanks) piping and secondary containment. This also includes a change in product or service or the revision of a standard operating or maintenance procedure. Section 112.5(b) requires a review and evaluation of the SPCC Plan at least once every five years. The completion of the review must be documented.

The SPCC Plan shall be updated:

- within six months after significant changes occur in the facility operations;
- if the Plan fails to provide the desired degree of protection;
- when a period of five (5) years has elapsed since the last revision(s) and the review indicates that a revision is necessary; or
- as required by changes in the 40 CFR 112 regulations.

APPENDIX A

LOADING/UNLOADING PROCEDURES

Bulk Fuel Transfer Procedure

1. Smoking is prohibited while offloading petroleum or fueling vehicles.
2. Verify that all valves in the secondary containment berm are closed. Move the truck into the unloading area, stop the engine, (unless required to operate a pump), set the hand brake, place wheel chocks, and connect a grounding cable between the tank and the truck frame. Verify sufficient volume in tank (if unloading truck) or in the truck (if loading truck) prior to starting transfer.
3. Drivers must be present during all petroleum transfers. No petroleum will be transferred to or from a storage tank unattended. The driver must be awake, have an unobstructed view of the tank and be within 25 feet of the truck. All transfer operations must be shut down if the driver leaves area.
4. All employees and all drivers conducting bulk transfers must review shipping papers or manifests and have knowledge of the nature of the materials they are handling and must have been trained on the procedures to be followed in an emergency.
5. Hose connections, valves, and pumps must be visually inspected continually during transfers to check for leaks or drips. All leaks must be stopped immediately or contained in a drip pan.
6. All areas, including loading/unloading area, truck parking area, etc. are to be kept free of petroleum materials and excessive residue.
7. To minimize the release of any material during transfer operations, drip pans or buckets should be used under all hose connections. Drip pans and buckets must be cleaned up before leaving the area. Oil dry, rags, shovels, etc. are available at the facility for cleanup in the event of a spill or drip.
8. The available capacity in the storage tank must be checked and confirmed before material is transferred from a truck to the tank to ensure the storage tank is not overfilled.
9. All spills must be reported to the facility manager.
10. Drivers have the responsibility to keep the transfer area clean and free of petroleum materials, to prevent spills from occurring, to immediately and thoroughly cleanup any material spilled, and to report spills to the facility operator.
11. After unloading or unloading is finished, disconnect and secure all hoses, disconnect the grounding cable, assure that the vehicle's lowermost drain and outlets are closed and secured, and assure that tank valves and other closures are closed and free of leaks before removing the wheel chocks and driving the truck from the transfer area.

Container Handling Procedure

1. Company policy prohibits smoking in petroleum product container storage areas.
2. All containerized materials must be secured prior to moving.
3. During loading and unloading containers from a truck, the truck should be moved into the unloading area with the engine stopped and hand brake set.
4. Personnel using or handling containers must review manifests and container labels, be aware of the materials they are handling and must be trained in the procedures to follow in an emergency, such as rupture or puncture of the container.
5. All containers must be labeled as to content.
6. All areas, including concrete containment and storage rooms or trailers, are to be kept free of spilled material.
7. All spills must be reported to the facility manager.

APPENDIX B
EMERGENCY CONTACT LIST

EMERGENCY CONTACT LIST

Local Authority/ Agency	Phone Number	Contact Period
Davie Fire Department	911	Immediately
Davie Police Department	911	Immediately
Emergency Medical Service	911	As Needed
Broward County Pollution Prevention Division	954-519-1260	24 Hours
Florida Department of Environmental Protection	651-681-6600	24 Hours
Florida Bureau of Disaster Preparedness	850-413-9911	24 Hours
National Response Center (U.S. Coast Guard)	800-424-8802	Immediately for spill to waters of the U.S.
State Watch Office (Div. of Emergency Management)	800-320-0519	Immediately for reportable spill to water or offsite
EPA Region IV	404-562-8700	As Needed
Plantation General Hospital (Primary)	954-587-5010	As Needed
Broward General Hospital (Secondary)	954-355-4400	As Needed
Emergency Coordinator: John "Shawn" Lennon, Jr. General Manager	954-583-3795 (office) 954-296-3871 (cell)	
EHS & Transportation Compliance Specialist: Randy Troy	407-859-4441 (office) 260-416-4981 (cell)	
Cleanup Contractor – SWS Environmental Services (Now US Ecology)	954-957-7271 877-742-4215 (24 hour)	

APPENDIX C

**FLORIDA DISCHARGE REPORTING FORM 62-761.900(1)
SPILL RESPONSE NOTIFICATION FORM**

SPILL RESPONSE NOTIFICATION FORM

Reporter's Full Name: _____

Position: _____

Phone Numbers: Day _____
Evening _____

Company: Triumvirate Environmental (Florida) Inc..

Address: 3670 SW 47th Avenue

City, State, Zip: Davie, FL 33314

Facility Longitude: **80° 12' 32.8696" N**

Facility Latitude: **26° 4' 36.6745" W**

INCIDENT DESCRIPTION

Incident Address/Location: _____

Container Type: _____

Date and Time of Discharge: _____ AM/PM

Material Discharged: _____

Discharged Quantity: _____ Gallons

Did Material Reach Water? _____ (Y/N) If so, What Quantity? _____ Gallons

Media Affected? Air? Y or N Water? Y or N Land? Y or N

Description of Medium Affected: _____

Source and/or Cause of Incident: _____

RESPONSE ACTION AND IMPACTS

Actions Taken to Correct, Control, or Mitigate Incident: _____

Number of Injuries: _____

Number of Deaths: _____

Evacuation Required? _____ (Y/N)

Number Evacuated: _____

Damage Incurred: _____ (Y/N)

Damage Cost Estimate: \$ _____

NOTIFICATIONS

USEPA? _____ (Y/N) STATE? _____ (Y/N) Other? See Notification List

ADDITIONAL INFORMATION: _____



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DISCHARGE REPORT FORM

DEP Form: 62-761.900(1)
Form Title: Discharge Report Form
Effective Date: January 2017
Incorporated in Rule 62-761.405, F.A.C.

Complete all applicable blanks, and submit copies of any analytical or field test results confirming contamination to soils, surface water, or groundwater to the County via email or mail.

Facility ID Number (If Registered): _____ Date of Form Completion: _____ Date of Discovery: _____

Facility Name: _____ County: _____

Facility (Property) Owner: _____ Telephone Number: _____

Owner Mailing Address: _____

Location of Discharge (Facility Street Address): _____ Lat/Long: _____

Date of receipt of any test or analytical results confirming a discharge: _____ Estimated number of gallons discharged: _____

Discharge affected: (Check all that apply)

- Soil
- Drinking water well(s)
- Groundwater
- Shoreline
- Soil water (water body name) _____
- Other (specify) _____

Evidence of discharge: (Check all that apply)

- Visual observation of sheen
- Visual observation of free product
- Results or receipt of results of analytical tests
- Spill or vehicle overfill > 25 gallons to a pervious surface
- Stained soils
- Other (explain in comments) _____

Method of discovery and confirmation of discharge: (Check all that apply, see rule language explanation on instructions for this form)

- Visual observation
- Groundwater analytical results
- Closure/Closure sampling assessment
- Soil analytical results
- Surface water analytical results
- Other (specify) _____

Type of regulated substance discharged: (Check all that apply)

- Gasoline
- Diesel
- Heating oil
- Kerosene
- Aviation gas
- Hazardous substance (USTs) – write name or Chemical Abstract Service (CAS) #: _____
- Jet fuel
- Used/waste oil
- New motor/lube oil
- Pesticide
- Grade 5 & 6 residual oils
- Mineral acids (ASTs)
- Ammonia compound
- Chlorine compound
- Biofuel blends
- Unknown
- Other (specify) _____

Discharge originated from a: (Check all that apply)

- Tank
- Piping
- Spill bucket
- Dispenser
- Piping sump
- Dispenser sump
- Other secondary containment
- Fitting or pipe connection
- Valve
- Tank truck
- Vehicle or customer vehicle
- Aircraft
- Railroad tankcar
- Barge, tanker ship or other vessel
- Pipeline
- Drum
- Unknown
- Other (specify) _____

Cause of the discharge: (Check all that apply)

- Spill
- Overfill
- Corrosion
- Puncture
- Material failure (crack, split, etc.)
- Material incompatibility
- Improper installation
- Loose connection
- Collision
- Vehicle accident
- Fire/explosion
- Vandalism
- Weather
- Human error
- Unknown
- Other (specify) _____

Actions taken in response to the discharge:

Comments:

Agencies notified (as applicable):

- Fire Department
 - County Program _____
 - District Office _____
 - State Watch Office _____
 - National Response Center _____
- 800-320-0519 800-424-8802

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

Printed Name of Owner, Operator or Authorized Representative _____

Signature of Owner, Operator or Authorized Representative _____

APPENDIX D

FACILITY INSPECTION PROCEDURE AND FORM

INSPECTION PROCEDURE FOR SPCC PLAN

An optional inspection form is provided in this appendix. However, as long as equivalent inspections are conducted and documented per the RCRA permit, this inspection form need not be used. The following items, if present, must be inspected by trained personnel:

OBSERVE for puddles of product or an oil sheen on any standing water.

ABOVEGROUND PIPING: Liquid bulk fill lines will be inspected for leaks, evidence of leaks, and evidence of potential leaks.

TANKS and PARKED TRUCKS: All bulk storage containers and associated piping will be visually inspected for leaks, overflows, and signs of potential problems. Special emphasis will be placed on the inspection of seams, patches, piping connections, sight glasses, and other openings. Valves should be in their proper position and locked or sealed, if required.

SECONDARY CONTAINMENT: Secondary containment areas will be inspected for adequate capacity and leaks, cracks, or other signs of failure.

SECONDARY CONTAINMENT RAINWATER ACCUMULATION: Diked areas must be kept reasonably free of rainwater accumulation. Secondary containment drains **MUST** be closed and sealed when not in use. The drain must be manned whenever it is open. Any drainage of rainwater from secondary containment areas must be **INSPECTED** and **RECORDED** on a Secondary Containment Drainage Log (See Appendix F).

TRANSFER PUMPS: Transfer pumps will be inspected for leaks around the housing. Associated piping will be inspected for leaks at the pump connections.

DRUMS: Drums will be inspected when received for condition. Drums will not be accepted if there is evidence of leaks or mishandling. Drums in storage will be examined for leaks, with special attention given to the bottom seam.

DRAINS: Drains should be inspected for blockage and accumulation of debris that would impede the free flow of liquids.

DRAIN PANS OR DRIP CONTAINERS: The liquid level in drip pans or drain containers should be checked and emptied as needed.

TANK OVERFILL ALARMS: Overfill alarm systems should be tested periodically for proper function.

DISPENSING HOSES: Dispensing hoses should be inspected for leaks and hose deterioration.

SPILL RESPONSE EQUIPMENT: Check spill response equipment to make sure that it is fully stocked and in good condition. Replace or upgrade as needed.

COOKING OIL TOTES: Will be inspected when received for condition. Oil Totes will not be accepted if there is evidence of leaks or mishandling. Oil Totes in storage will be examined for leak.

USED OIL FILTER CONTAINERS: All bulk used oil filter storage containers will be examined for leaks or overfill.

SPCC MONTHLY FACILITY INSPECTION FORM

Oil Storage Description	Tank/Truck/ Container in Good Condition?	Tank Piping, Hoses, Valves, Supports, Appurtenances, etc. in Good Condition?	Secondary Containment in Good Condition, No Liquid?	Date Problem Corrected and Employee Initials
Oil Tanks				
Tanks 1-7				
Tanks 8-17				
Tank 18	Out of Service			
Tank 20	Removed			
Tank 21-22				
Tank Truck				
Vacuum Truck No. 1				
Vacuum Truck No. 2				
Used Oil Drums in HW Storage Area		NA		
Cooking Oil Totes				
Used Oil Filter Containers				

Transformer (owned & operated by FPL) in good condition?	Y	N
Spill Response Equipment: Seal in Place or Inventory Complete?	Y	N
Physically Test Tank Alarm – Functional?	Y	N

Comments: _____

To the best of my knowledge, I have personally verified that the information on this report is true, accurate, and complete.

Inspector's Signature: _____ Date: _____

APPENDIX E

TRAINING RECORDS AND SAMPLE TRAINING PRESENTATION

APPENDIX F

SECONDARY CONTAINMENT DRAINAGE PROCEDURE AND LOG

SECONDARY CONTAINMENT DRAINAGE PROCEDURE

1. Inspect secondary containment on a monthly basis or as necessary following rainfall for drainage.
2. Visually inspect the secondary containment. Indicate the condition of the accumulated water.
4. Record the depth of accumulation.
5. Follow the appropriate drainage procedure.
 - A. Observe the water surface for a sheen or oil presence.
 - B. If no sheen is apparent the water may be pumped to the nearest paved surface.
 - C. If the water is possibly contaminated, take a sample for closer observation and possible testing.
 - C. If the water is considered contaminated, call the facility operator or emergency coordinator to direct cleanup or further action.
 - D. If in doubt of the appropriate action, contact a facility operator or emergency coordinator immediately.
6. Enter the time the drainage operation begins. If any tanks within the secondary containment contains product, check drainage frequently.
7. Upon completion of drainage, secure all pumps and/or valves.
8. Enter stop time.
9. Sign, date, and file the form. Drainage Logs are to be retained at the facility for a minimum period of three (3) years.
10. Return the completed inspection form to the facility manager or designee.

SECONDARY CONTAINMENT DRAINAGE LOG

Containment # _____

Inspection Date	Condition	Depth Of Accum.	Procedure	Pumping Started	Pumping Stopped	Comment	Signature
				Time	Time		
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
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	1 2 3		1				
	1 2 3		1				
	1 2 3		1				
	1 2 3		1				

Condition:

- 1. Accumulation clear & free of oil, sheen, or discoloration.
- 2. Accumulation has very small quantity of oil, film, sheen, or discoloration.
- 3. Accumulation has heavy oil content.

Procedure:

- 1. Entire accumulation pumped to drum or tank truck for disposal.

NOTE: If in doubt on procedure or condition, contact facility operator immediately

APPENDIX G

CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

CERTIFICATION OF SUBSTANTIAL HARM DETERMINATION FORM

FACILITY NAME: Triumvirate Environmental (Florida) Inc.

FACILITY ADDRESS: 3670 SW 47th Avenue, Davie, Florida 33314

1. Does the facility have a maximum storage capacity greater than or equal to 42,000 gallons and do the operations include over water transfer of oil to or from vessels?

Yes _____ No X

2. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility without secondary containment for each aboveground storage area sufficiently large to contain the capacity of the largest aboveground storage tank and precipitation within the storage area?

Yes _____ No X

3. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III or an alternative formula* considered acceptable by the RA) such that a discharge from the facility could cause injury to fish, wildlife, and sensitive environments?

Yes _____ No X

4. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and is the facility located at a distance (as calculated using the appropriate formula in Attachment C-III or an alternative formula* considered acceptable by the RA) such that a discharge from the facility would shut down a public drinking water intake?

Yes _____ No X

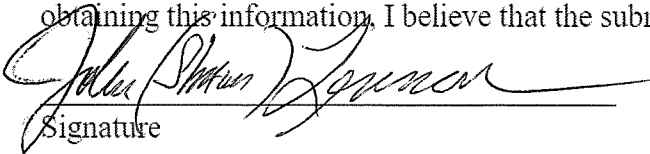
5. Does the facility have a maximum storage capacity greater than or equal to one million (1,000,000) gallons and, within the past 5 years, has the facility experienced a reportable spill in an amount greater than or equal to 10,000 gallons?

Yes _____ No X

*If an alternative formula is used, documentation of the reliability and analytical soundness of the alternative formula must be attached to this form.

CERTIFICATION – INCLUDES ALL SUBSTATIONS

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.


Signature

General Manager
Title

John (Shawn) Lennon
Name (please type or print)

8/23/22
Date



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment K: Closure Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

**Initial Application Date: September 1, 2022
Revision #1: November 14, 2022**

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A. Closure Plan for Used Oil Processing Facility

1. Introduction

Purpose

This closure plan is prepared in accordance with rule 62-710.800(3) for TESI, a used oil processing facility.

Scope

This closure plan describes the manner in the used oil treatment and storage areas of the facility will be closed in order to satisfy the requirements of closure performance pursuant to 62-710.800(3)(a), F.A.C.

Facility Information

TESI is a used oil processor, transporter, and oil filter recycler.

Facility Location: Triumvirate Environmental Services, Inc. (TESI)
 3670 SW 47th Avenue
 Davie, FL 33314

EPA ID No: FLD 981 018 773

2. Closure Performance Standards

TESI, as owner/operator of the facility, shall close the used oil processing area of the facility in a manner that:

- a) Minimizes the need for further maintenance;
- b) Provides for the removal of used oils stored in the area;
- c) Provides for the disposal of oil storage and processing equipment from the site;
- d) Demonstrates no contamination of groundwater has resulted from the facility operation;
- e) Demonstrates no contamination of the soil has resulted from the facilities operation.

3. Closure Plan

Upon Closure, the used oil treatment and storage areas of the facility shall be closed. Partial closure may occur if areas of the facility are closed as a result of facility modifications.

Used Oil Disposal

The maximum storage capacity of the facility is approximately 450,000 gallons of used oil and oily wastewater. All used oil and material subject to the used oil regulations in storage at the time of closure shall be transported by a permitted used oil transporter and recycled by a used oil processing and/or burner facility permitted by the Florida Department of Environmental Protection. Material subject to the used oil regulations generated during closure of the facility shall be transported by a permitted used oil transporter and recycled by a used oil processing and/or burner facility permitted by the Florida Department of Environmental Protection.

Secondary Containment Decontamination

Following the removal of all regulated materials the secondary containment units will be cleaned utilizing a 2,200 psi pressure washer or equivalent equipment. The tank, pipelines, equipment, and storage areas will be cleaned in a systematic manner to ensure the contaminating material is thoroughly removed. Wash water generated from the cleaning process will be collected and pumped

directly into a tanker trailer for subsequent transportation and recycling. Secondary containment areas will be pressure washed until wash water shows no visual evidence of oil contamination.

As an alternative closure method, all tanks, piping, and equipment may be reused, if suitable. All tanks, piping, equipment shall be emptied of all free flowing used oil prior to removal from the facility for reuse. Any tanks, piping, and/or equipment, which cannot be reused, shall be recycled as scrap metal after proper cleaning.

Environmental Monitoring & Analysis

At the time of closure, groundwater monitor wells located in the vicinity of the used oil management activities shall be sampled in accordance with SW-846 protocols. The water sampled shall be tested for the presence of used oil by Methods 8010, 8020, 8270, and 418.1 (or their equivalent). Additionally, four soil samples shall be obtained from the areas in the vicinity of the used oil management activities. Samples shall be taken in accordance with SW-846 protocols and tested by Methods 8010, 8020, 8270, and 418.1 (or their equivalent). Soils will also be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). If the results from the groundwater and soil samples do not exceed regulatory levels, "clean closure" will be assumed.

B. Closure Plan for Solid Waste Processing Facility

1. Introduction

Purpose

This closure plan is prepared in accordance with rule 62-701.320(7) for TESI, also a solid waste processing facility in addition to being a used oil processing facility.

Scope

This closure plan describes the manner in which the solid waste processing area of the facility will be closed in order to satisfy the requirements of closure performance pursuant to 62-701.320(7), F.A.C.

Facility Information

TESI is a used oil processor, transporter, and oil filter recycler. TESI is also a permitted solid waste processing facility.

Facility Location: Triumvirate Environmental Services, Inc. (TESI)
 3670 SW 47th Avenue
 Davie, FL 33314

EPA ID No: FLD 981 018 773

2. Closure Performance Standards

TESI, as owner/operator of the facility, shall close the solid waste processing area of the facility in a manner that:

1. Minimizes the need for further maintenance;
2. Provides for the removal of non-hazardous wastes stored in the area;
3. Provides for the disposal of storage and processing equipment from the site;
4. Demonstrates no contamination of the soil has resulted from the facility's operation

3. Closure Plan

Upon Closure, the solid waste processing area of the facility shall be closed. Under the existing operating permit, this area consists of one 20 cubic yard roll-off container and drums of non-hazardous waste stored at the time of closure not to exceed 300, 55-gallon drums. This permit renewal requests a modification to allow two 20 cubic yard roll-off containers and drums of non-hazardous waste stored at the time of closure not to exceed 500, 55-gallon drums.

Non-Hazardous Waste Disposal

The maximum storage capacity will be two 20 cubic yard roll-off containers if the proposed modification is approved. The storage limit for drummed non-hazardous waste is proposed to be increased from 300, 55-gallon drums (in the current permit) to 500, 55-gallon drums.

All non-hazardous waste, whether in drums or the roll-off at the time of closure shall be transported offsite to a Treatment, Storage, and Disposal Facility (TSDF) permitted by the Florida Department of Environmental Protection.

Secondary Containment Decontamination

The secondary containment serving the drums and roll-off containing non-hazardous waste is the same containment used for loading/unloading used oil/oily wastewater. The secondary containment will be closed in accordance with the closure plan for used oil activities.

Environmental Monitoring & Analysis

At the time of closure, soil and groundwater will be monitored in accordance with the closure plan for the used oil processing facility. Groundwater monitor wells located in the vicinity of the used oil management activities shall be sampled in accordance with SW-846 protocols. The water sampled shall be tested for the presence of used oil by methods 8010, 8020, 8270, and 418.1 (or their equivalent). Additionally, four soils samples shall be obtained from the areas in the vicinity of the used oil management activities. Samples shall be taken in accordance with SW-846 protocols and tested by Methods 8010, 8020, 8270, and 418.1 (or their equivalent). Soils will also be analyzed for RCRA metals and organic constituents in accordance with the Toxicity Characteristic Leaching Procedure (TCLP). If the test results from the groundwater and soil samples do not exceed regulatory levels, "clean closure" will be assumed.

C. Closure Cost Estimates and Financial Assurance

The financial assurance for the used oil and solid waste processing facility was last updated in January 2022 by applying the current year inflation factor to last year's closing cost estimate. The closing cost estimate form was reviewed and approved by FDEP in January 2022. The financial assurance bond was updated as required, mailed to the FDEP, and approved in February 2022. These documents are provided in **Attachment K** for reference.

In this permit renewal application, Triumvirate is requesting an additional 200, 55-gallon drums be approved for consolidation into two roll-off containers. An estimate of the cost to dispose of the additional 200, 55-gallon containers of non-hazardous material is provided in **Attachment K**. All other cost estimates for facility closure (secondary containment decontamination, environmental monitoring and analysis, etc) remain the same and are already accounted for in the inflation factor adjusted closing cost estimate previously approved.

As noted in the 1st RAI, the closure cost estimate has been reviewed and is approved by FDEP for an additional amount of \$3,382.50 for a 200 drum increase to the maximum storage capacity of Non-Hazardous Solid Waste Storage Area. The financial assurance mechanism has been updated to reflect the addition of \$3,382.50 for a 200 drum increase to the maximum storage capacity of the Non-Hazardous Solid Waste Storage Area. The updated bond totaling \$521,832.63 is provided in **Attachment K**. Please note, Triumvirate is the process of changing bonding companies. As a result, a new bond for the required amount has been issued instead of a rider to the bond currently in place.

Triumvirate Additional Closure Cost Estimate for 200 Drum Increase in Non-Haz Drums for Consolidation

Closure Cost Estimate Table											
Material	Quantity	Estimated Weight (tons)	Disposal Facility	Disposal Cost per unit	Unit of Measure	Transporter	Loads	Transportation Cost per Load	Total Transportation Cost	Total Disposal Cost	Total Cost
Non-Hazardous Solids	200, 55-gallon drums (450 lbs each)	45	Waste Management - Okeechobee Landfill	\$ 35.00	Tons	Waste Management	3	\$ 500.00	\$ 1,500.00	\$ 1,575.00	\$ 3,075.00
											\$ 3,075.00

Total Additional Cost	\$ 3,075.00
10% Contingency	\$ 307.50
Total Additional Closure Cost plus Contingency	\$ 3,382.50

*This bond supersedes and replaces U.S. Specialty Insurance Company
bond number 1001066441*

Mail Document and Notices to:
Solid Waste Financial Coordinator
Florida Department of Environmental Protection
2600 Blairstone Road MS 4548
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(5)(b)
Form Title SW Fac. Guarantee Bond
Form Effective Date February 15, 2015
Incorporated in Rule 62-701.630(6)

STATE OF FLORIDA SOLID WASTE FACILITY FINANCIAL GUARANTEE BOND

The term "Required Action" as used in this document means closing, long-term care, or corrective action, or any combination of these, which is identified below.

Check Appropriate Box(es): Closing Long-Term Care Corrective Action

Date bond executed: November 4, 2022

Effective date: November 11, 2022

Principal is a Corporation
Type of Legal Entity (e.g., corporation, limited liability company, partnership, sole proprietorship)

Principal: Triumvirate Environmental Services, Inc.
Legal Name of Owner or Operator

3701 SW 47th Avenue, Davie, FL 33314

Business Address of Owner or Operator

Surety(ies): Atlantic Specialty Insurance Company
Name as listed on Treasury Circular 570

605 Highway 169 North, Suite 800, Plymouth, MN 55441

Business Address

NY

State of Incorporation of Surety

List for each facility covered by this bond: FDEP identification number (WACS or EPA ID), facility name and site address.
Include facility amounts (the amount for each facility covered by this bond) only when more than one facility is covered by this bond.
Facility amount equals penal sum when not specified.

FDEP I.D. No.
FLD 981018773

Facility Name and Site Address
Triumvirate Environmental Services, Inc.
3670 SW 47th Ave., Davie, FL 33314
Broward County

Total penal sum of bond: \$ 521,832.63

Surety's bond number: 800113464

Bond premium: \$ \$15,655.00

Know All Persons By These Presents, That we, the Principal and Surety(ies) hereto are firmly bound to the Florida Department of Environmental Protection (hereinafter called FDEP), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Sureties are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS, said Principal is required, under the Florida Solid Waste Management Act as amended, to have a permit in order to construct, operate or close each solid waste management facility identified above, and

WHEREAS, said Principal is required to provide financial assurance for the "Required Action," as a condition of the permit(s), and

WHEREAS, said principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of the obligation are such that if the Principal shall faithfully, before the beginning of Required Action(s) of each facility identified above, fund the standby trust fund in the amount identified above for the facility,

Or, if the Principal shall fund the standby trust fund in such amount within 15 days after an order to begin Required Action(s) is issued by the Secretary of the FDEP, or the Secretary's designee (the "designee"), or a U.S. district court or other court of competent jurisdiction,

Or, if the Principal shall provide alternate financial assurance and obtain the FDEP Secretary's, or designee's, written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the FDEP Secretary, or designee, from the Surety(ies), then this obligation shall be null and void, otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above. Upon notification by the FDEP Secretary, or designee, that the Principal has failed to perform as guaranteed by this bond, the Surety(ies) shall place funds in the amount guaranteed for the facility(ies) into the standby trust fund as directed by the FDEP Secretary, or designee.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice of cancellation by certified mail to the Principal and to the Secretary of the FDEP, or designee; however, cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the FDEP Secretary, or designee, as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the Secretary of the FDEP, or designee.

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees new facility amount(s), provided that the penal sum does not increase by more than 20 percent in any one year, and no decrease in the penal sum takes place without the written permission of the FDEP Secretary, or designee.

IN WITNESS WHEREOF, the Principal and Surety(ies) have executed this Financial Guarantee Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies), and that the wording of this surety bond is identical to the wording as adopted and incorporated by reference in Rule 62-701.630(6)(a), F.A.C.

PRINCIPAL

Triumvirate Environmental Services, Inc.

By: John F. McQuillan, Jr.
Signature of Authorized Representative of Principal

John F. McQuillan, Jr., CEO
Type Name and Title

617.628.8098
Telephone Number

jmcquillan@triumvirale.com
E-mail Address

Emily Duquette
Signature of Witness or Notary

November 10, 2022
Date

Emily Duquette
Printed Name of Witness or Notary Seal

CORPORATE SURETY(IES)

Provide the following for each surety (co-surety). Attach pages as needed.

Atlantic Specialty Insurance Company
Surety Company

NA

Liability Limit (for co-sureties only)

By: Donna M Planeta (SEAL)
Signature of Authorized Representative of Surety (Attach Power of Attorney)



Donna M Planeta, Attorney-in-Fact
Type Name and Title

75 Arlington St., Floor 10, Boston, MA 02116
Address of Authorized Representative

617-638-3700
Telephone Number

BPeters@intactinsurance.com
E-mail Address





Power of Attorney

Surety Bond No: 800113464

Principal: Triumvirate Environmental Services, Inc.
Obligee: Florida Department of Environmental Protection

KNOW ALL MEN BY THESE PRESENTS, that ATLANTIC SPECIALTY INSURANCE COMPANY, a New York corporation with its principal office in Plymouth, Minnesota, does hereby constitute and appoint: Donna M Planeta, each individually if there be more than one named, its true and lawful Attorney-in-Fact, to make, execute, seal and deliver, for and on its behalf as surety, any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof; provided that no bond or undertaking executed under this authority shall exceed in amount the sum of: **sixty million dollars (\$60,000,000)** and the execution of such bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof in pursuance of these presents, shall be as binding upon said Company as if they had been fully signed by an authorized officer of the Company and sealed with the Company seal. This Power of Attorney is made and executed by authority of the following resolutions adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the President, any Senior Vice President or Vice-President (each an "Authorized Officer") may execute for and in behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and affix the seal of the Company thereto; and that the Authorized Officer may appoint and authorize an Attorney-in-Fact to execute on behalf of the Company any and all such instruments and to affix the Company seal thereto; and that the Authorized Officer may at any time remove any such Attorney-in-Fact and revoke all power and authority given to any such Attorney-in-Fact.

Resolved: That the Attorney-in-Fact may be given full power and authority to execute for and in the name and on behalf of the Company any and all bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed and sealed by an Authorized Officer and, further, the Attorney-in-Fact is hereby authorized to verify any affidavit required to be attached to bonds, recognizances, contracts of indemnity, and all other writings obligatory in the nature thereof.

This power of attorney is signed and sealed by facsimile under the authority of the following Resolution adopted by the Board of Directors of ATLANTIC SPECIALTY INSURANCE COMPANY on the twenty-fifth day of September, 2012:

Resolved: That the signature of an Authorized Officer, the signature of the Secretary or the Assistant Secretary, and the Company seal may be affixed by facsimile to any power of attorney or to any certificate relating thereto appointing an Attorney-in-Fact for purposes only of executing and sealing any bond, undertaking, recognizance or other written obligation in the nature thereof, and any such signature and seal where so used, being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

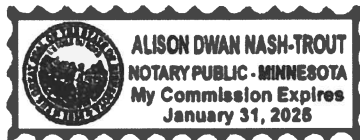
IN WITNESS WHEREOF, ATLANTIC SPECIALTY INSURANCE COMPANY has caused these presents to be signed by an Authorized Officer and the seal of the Company to be affixed this fifth day of March, 2020.



By *Paul J. Brehm*
Paul J. Brehm, Senior Vice President

STATE OF MINNESOTA
HENNEPIN COUNTY

On this fifth day of March, 2020, before me personally came Paul J. Brehm, Senior Vice President of ATLANTIC SPECIALTY INSURANCE COMPANY, to me personally known to be the individual and officer described in and who executed the preceding instrument, and he acknowledged the execution of the same, and being by me duly sworn, that he is the said officer of the Company aforesaid, and that the seal affixed to the preceding instrument is the seal of said Company and that the said seal and the signature as such officer was duly affixed and subscribed to the said instrument by the authority and at the direction of the Company.



Alison Nash-Trout
Notary Public

I, the undersigned, Assistant Secretary of ATLANTIC SPECIALTY INSURANCE COMPANY, a New York Corporation, do hereby certify that the foregoing power of attorney is in full force and has not been revoked, and the resolutions set forth above are now in force.

Signed and sealed. Dated 4th day of November, 2022.



Christopher V. Jerry
Christopher V. Jerry, Secretary



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment L: Training Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

**Initial Application Date: September 1, 2022
Revision #1: November 14, 2022**

1. Employee Training

Training in accordance with the facility SPCC plan is conducted annually. A copy of the SPCC plan is included in this application as **Attachment J**. Training is also conducted to familiarize all employees with the facility Contingency Plan which is enclosed in this application as **Attachment I**.

RCRA (Resource Conservation and Recovery Act) training is conducted to educate employees on what kinds of materials are hazardous wastes and universal wastes so that these materials are not accepted as non-hazardous wastes and are not processed into the non-hazardous waste consolidation roll-off.

TESI has developed a Hazardous Materials DOT and Health and Safety Training program that was established to comply with OSHA and USDOT requirements while at the facility and while transporting hazardous materials. Descriptions of the OSHA or DOT trainings are available if requested by Department Staff. It is not presented at this time so emphasis can be given to training required under this used oil and solid waste permit application.

Written training records, including name of the employee, date, and type of training, will be kept at the site for a minimum of 5 years, and are also kept electronically within Triumvirate's Corporate Learning Management System (LMS). To specifically address the Used Oil Processing Facility Permit Application, Part I.C.9, please note the following:

a) The methods and/or materials used to familiarize employees with all state and federal rules and regulations:

Training is conducted in person when possible. There are some trainings that are a blend of online training followed by hands on proficiency training. All field and plant employees receive HAZWOPER, RCRA, DOT, FL BIO WASTE, USED OIL HANDLER, FIRE SAFETY, USED OIL HANDLER, and various other trainings within the first 90 days of hire and receive annual refresher training every year thereafter. All trainings are documented and recorded within our Corporate Learning Management System (LMS). Employees also attend monthly safety meetings where safety topics and regulatory topics are discussed.

b) The method of documenting that employees have been trained to use emergency equipment:

All employees are HAZWOPER 40 trained, which includes a hands-on portion of emergency equipment. All employees also receive annual refresher training on HAZWOPER. Personnel also take part in tabletop exercises and drills to further hone their emergency response and emergency equipment proficiency. All training is recorded within our Corporate Learning Management System (LMS).

c) How the employee education program is updated to address changes in applicable regulations or facility operations:

Regulatory changes are tracked using third-party software (CyberRegs) through the Corporate Compliance Department. When regulatory changes are noted, employee training is reviewed on a regular basis to ensure that the training is up to date and effective. Anytime there are new regulatory requirements training is given to address the updates prior to the effective date of the update and training is updated to reflect the regulatory change.



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment M: Unit Management

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

**Initial Application Date: September 1, 2022
Revision #1: November 14, 2022**

1. Unit Management

All tanks and fill pipes will be marked with the words “Used Oil”. A table showing the details of the oil tanks is shown below. The Spill Prevention, Control and Countermeasure (SPCC) plan in **Attachment J** has additional details on the safe management of the tanks.

Table M-1: Oil Tank Table

Location/ID #	Capacity (gals)	Product Stored	Installation Date	Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T1	8,000	Used Oil/Oily Water	01/89	8' x 21.5' H	3/8"	#1
AST #T2	8,000	Used Oil/Oily Water	01/89	8' x 21.5' H	3/8"	#1
AST# T3	6,000	Used Oil/Oily Water	04/89	8' x 16' H	3/8"	#1
AST #T4	6,000	Used Oil/Oily Water	04/89	8' x 16' H	3/8"	#1
AST #T5	10,000	Used Oil/Oily Water	06/87	10' x 18' H	3/8"	#1
AST #T6	9,500	Used Oil/Oily Water	06/87	10.5' x 14.6' H	3/8"	#1
AST #T8	20,000	Used Oil/Oily Water	06/87	10.5' x 31' V	3/8"	#1
AST #T9	20,000	Used Oil/Oily Water	03/89	10.5' x 31' V	3/8"	#1
AST #T10	20,000	Used Oil/Diesel	06/87	10.5' x 31' V	3/8"	#1
AST #T11R	20,000	Used Oil/Oily Water *(Previous Tank 11 installed 06/87; old tank removed and new tank 11R installed in 2014)*	2014	10.5' x 31' V	3/8"	#1
AST #T12	20,000	Used Oil/Oily Water	03/89	10.5' x 31' V	3/8"	#1
AST #T13	20,000	Used Oil/Oily Water	03/89	10.5' x 31' V	3/8"	#1
AST #T14	20,000	Used Oil/Oily Water	03/89	10.5' x 31' V	3/8"	#1
AST #T15	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
AST #T16	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
AST #T17	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1

Location/ID #	Capacity (gals)	Product Stored	Installation Date	Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T18 or Mixer	6,500	Out of Service	04/89	8.5' x 16' V	3/8"	#1
AST #T7	10,000	Used Oil/Oily Water [process tank]	01/93	8' x 26' H	3/8"	#2
AST #T20	1,000	Out of Service	02/92	5.33' x 6' H	3/8"	#5
AST #T21	100,000	Used Oil/Oily Water	06/96	20' x 31' V	3/8"	#4
AST #T22	20,000	Used Oil/Oily Water [process tank]	01/14	10.5' x 31' H	3/8"	#4
Drum Storage Building (Warehouse Transfer Station)	55-550 33,000 (total)	Hazardous and non-hazardous waste, occasionally 1-20 drums of oil filters or other petroleum materials. Cooking Oil Totes 250 gal to 550 gal	N/A	Variable	Variable	#8
Tanker Unloading	55-550	Cooking Oil Totes, Oil Filter or Other Petroleum Materials	N/A	Variable	Variable	#3
FP&L Transformer*	55+	Mineral Oil	1990's	Owned and operated by FPL	Owned and Operated by FPL	Owned and Operated by FPL

H = horizontal tank

V = vertical tank

*FPL would not acknowledge requests for information



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment N: Construction Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Construction Plans

There are no construction activities proposed as part of this permit renewal application. The last major construction was performed in 2014. The last as-built drawings for the site are shown in **Attachment N**.

CONSTRUCTION DOCUMENTS

JANUARY 3, 2014

PETROLEUM STORAGE TANK IMPROVEMENT

INSTALLATION OF 20,000-GALLON HORIZONTAL OIL TREATMENT ABOVEGROUND STORAGE TANK (AST)
& CLOSURE AND REPLACEMENT OF 20,000 GALLON USED OIL AST

FOR

TRIUMVIRATE ENVIRONMENTAL (FLORIDA), INC.

3670 SW 47 AVENUE, DAVIE, FLORIDA 33314

(BROWARD COUNTY FACILITY NUMBER: 00055)

(FDEP ST FACILITY ID: 069102123)

(FDEP OPERATING PERMIT NUMBER: 77390-HO-008, 77390-SO-009)

(USEPA ID NUMBER: FLD 981 018773)

OWNER:

TRIUMVIRATE ENVIRONMENTAL (FLORIDA), INC.
3701 SW 47TH AVE, SUITE 109, DAVIE, FL. 33314
P: 954.583.3795 | F: 954.583.8017 |
CONTACT: JOHN (SHAWN) LENNON, JR., GENERAL
MANAGER

DESIGNATED TEAM INFORMATION:

GEOTECH ENVIRONMENTAL, INC
7737 N. UNIVERSITY DRIVE, SUITE 206, TAMARAC, FL
33321
P: 954.597.9100 | F: 954.597.9191
CONTACT: NEIL LAKHLANI, PROJECT MANAGER
(POLLUTANT SYSTEM SPECIALTY CONTRACTOR
(PCC NUMBER: PCC1256803)
(STATE OF FLORIDA PROFESSIONAL ENGINEERING
LICENSE NUMBER 7396)

IDEAL MAINTENANCE, INC. (ELECTRICAL
CONTRACTOR)
17731 77 LANE NORTH, LOXAHATCHEE, FL 33470
CONTACT: COGGINS, MICHAEL W


REGULATORY AGENCIES:

FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION (FDEP)
BOB MARTINEZ CENTER
2600 BLAIRSTONE ROAD, TALLAHASSEE, FLORIDA
32399-2400

BROWARD COUNTY ENVIRONMENTAL
PROTECTION & GROWTH MANAGMENT
Storage Tank Division
Development Review Services
Environmental Review Services
1 North University Drive, 102A
Plantation, FL 33324
P: 954.357.6666

TOWN OF DAVIE BUILDING DEPARTMENT
6591 Orange Drive, Davie, FL 33314
P:954.797.1111
CONTACT: BRIAN DILLON, BUILDING OFFICIAL

SUBMISSIONS:

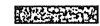




 3-12-14-'AS BUILTS'

Project No. 021322	Phase: Construction Documents
Drawing Title:	COVER SHEET
Sheet No.	1
Date:	January 3, 2014

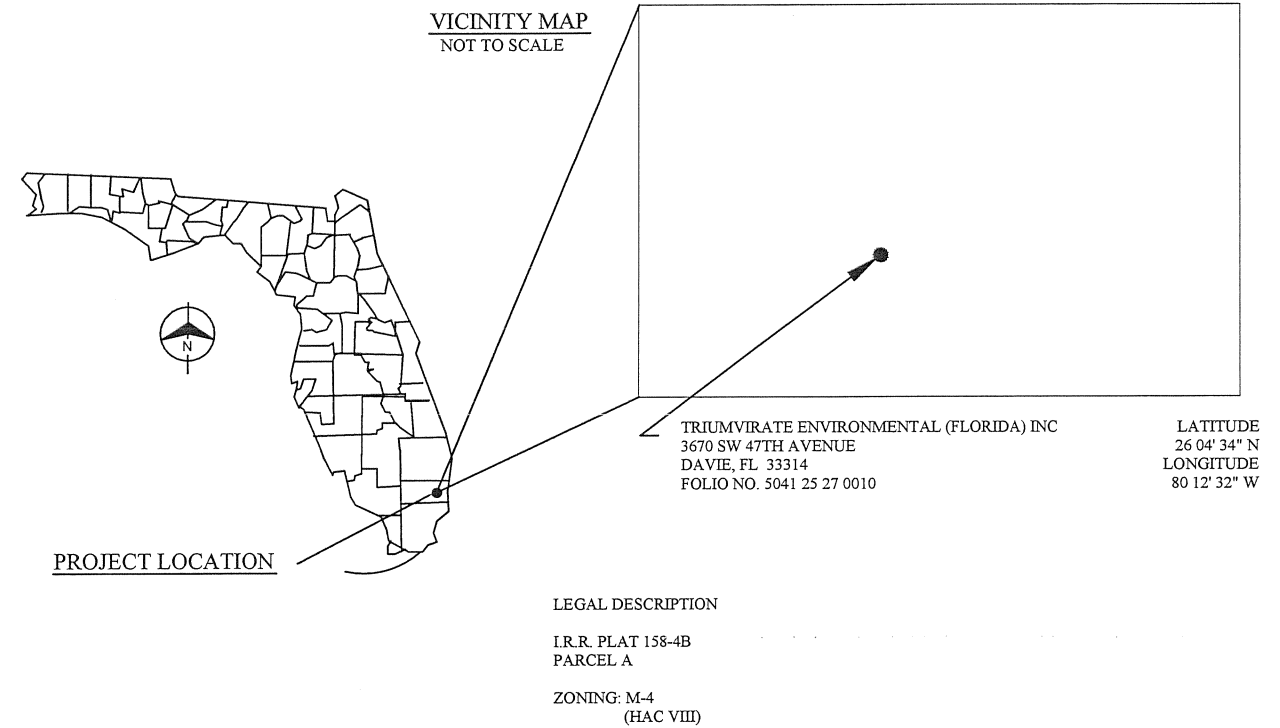
ABBREVIATIONS:

CL CENTER LINE
 UP UTILITY POLE
 LP LIGHT POLE
 (OH) OVER HEAD
 (TYP) TYPICAL
 COV COVERED
 ASPH ASPHALT
 CONC CONCRETE
 S/W SIDE WALK
 WF WOOD FENCE
 CLF CHAIN LINK FENCE

MATERIALS SYMBOLS:

 CONCRETE
 POROUS FILL
 EARTH
 METAL
 WOOD

LOCATION MAP:



Revisions:
 3-12-14 - AS BUILTS

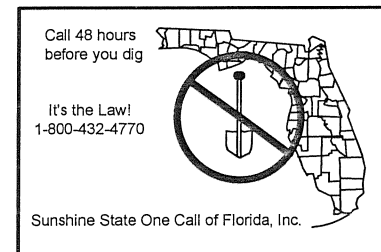
GEOTECH ENVIRONMENTAL
 BOARD OF PROFESSIONAL ENGINEERS CA No 7396
 7737 North University Drive, Suite 206
 Tamarac, Florida 33321
 Tel. 954-997-9100
 www.geotech-usa.com

Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
 3670 SW 47th AVENUE
 DAVIE, FL 33314

NOTES:

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

ALL IDEAS, DRAWING PLANS AND ARRANGEMENT INDICATED OR PRESENTED BY THESE DRAWINGS ARE OWNED BY AND THE PROPERTY OF GEOTECH ENVIRONMENTAL, INC. OR ENGINEER OF RECORD. THEY WERE CREATED FOR AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. THE IDEAS, DESIGNS, DRAWINGS, PLANS AND ARRANGEMENTS OF THE SPECIFIED PROJECT SHALL NOT BE USED BY OR DISCLOSED TO ANY PERSONS, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF GEOTECH OR THE ENGINEER OF RECORD.



DRAWING NOTE

EXISTING INFORMATION HAS BEEN OBTAINED FROM THE BEST AVAILABLE SOURCE. THE LOCATIONS OF THE BUILDINGS, TANKS, AND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THESE DRAWINGS ARE NOT GUARANTEED BY GEOTECH ENVIRONMENTAL, INC., TO BE ACCURATE AND UNLESS OTHERWISE INDICATED, SHOULD BE USED FOR REFERENCE ONLY. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SITE CONDITIONS PRIOR TO WORK UNDER THIS SITE PLANS

SYMBOLS:

SECTION KEY 
 DETAIL KEY 
 REVISION/ADDENDUM 
 NORTH ARROW 

LIST OF DRAWINGS:

GENERAL

1	COVER	11	PRODUCT PIPING
2	SITE & VICINITY MAP	12	STEAM PIPING
3	GENERAL NOTES	13	STEAM PIPING SCHEMATIC
4	SCOPE OF WORK	14	ELECTRICAL DETAIL
5	EQUIPMENT SPECIFICATIONS		
6	SITE MAP		
7	CLOSURE PLAN		
8	INSTALL PLAN		
9	20,000-GAL HORIZONTAL TANK		
10	20,000-GAL VERTICAL TANK		

Engineer: SLB
 Drawn By: SLB
 Checked By: N.L.
 Scale: 1 inch = 20 feet on 11x17
 Date: 01-03-2014

Project Number:
 021322

Title:
 SITE & VICINITY MAP

Sheet Number:
 FIGURE
 2

04042014

IRVING E. ABCUG, P.E.
 FLORIDA LICENSE NO. 28376

NOTES

1. "OWNER" AS USED IN THESE DOCUMENTS REFERS TO:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC.
3701 SW 47TH AVE, SUITE 109, DAVIE, FL. 33314
"CONTRACTOR" AS USED IN THESE DOCUMENTS REFERS TO:
GEOTECH ENVIRONMENTAL, INC. (GEOTECH)
7737 N. UNIVERSITY DRIVE, SUITE 206
TAMARAC, FLORIDA 33321
2. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, AMENDMENTS, RULES, REGULATIONS, ORDINANCES, LAWS, ORDERS, APPROVALS, ETC., THAT ARE REQUIRED BY PUBLIC AUTHORITIES IN EFFECT AT THE TIME THE WORK IS PERFORMED. THE CONTRACTOR SHALL COMPLY WITH ALL ACCEPTABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND ORDERS OF PUBLIC BODIES HAVING JURISDICTION FOR THE SAFETY OF PERSONS OR PROPERTY OR TO PROTECT THEM FROM DAMAGE, INJURY, OR LOSS, INCLUDING, WITHOUT LIMITATION, THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (PL-91-595) AND UNDER SECTION 107 OF THE CONTRACT WORK HOURS AND SAFETY STANDARD ACT OF (PL 91-54) AND AMENDMENTS THERE TO. TANKS SHALL COMPLY WITH NFPA 30, AND BE APPROVED BY BCFCC AND BORA.
3. ALL WORK WILL BE PERFORMED BY A STATE OF FLORIDA CERTIFIED POLLUTION SYSTEM SPECIALTY CONTRACTOR (PSSC) AND STATE OF FLORIDA LICENSED ENGINEER.
4. THE OWNER WILL REIMBURSE THE CONTRACTOR FOR ANY/ALL REQUIRED PERMITS, LICENSES, AND INSPECTION FEES, NECESSARY. OWNER SHALL ORDER AND SCHEDULE THE TANKS, TANK ACCESSORIES, AND BOILER EQUIPMENT DELIVERY IN AMPLE TIME TO AVOID DELAYS IN CONSTRUCTION. IF ANY ITEM IS FOUND TO BE UNAVAILABLE OR HAVE A LONG LEAD TIME, THE OWNER SHALL NOTIFY THE CONTRACTOR IN WRITING IMMEDIATELY.
5. THE CONTRACTOR IS FAMILIAR WITH THE CONDITIONS OF THE BUILDING SITE BEFORE CONDUCTING WORK AT THE SITE.
6. BEFORE COMMENCEMENT OF WORK, THE CLIENT WILL PROVIDE A CURRENT SURVEY OF THE BUILDING SITE AND WILL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS.
7. THE CONTRACT DOCUMENTS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/CONTRACTOR WHETHER HE PROJECT FOR WHICH THEY ARE EXECUTED OR NOT. THE CONTRACT DOCUMENTS ARE NOT TO BE USED BY THE OWNER FOR OTHER PROJECTS OR EXTENSIONS TO THE PROJECT NOR ARE THEY TO BE MODIFIED IN ANY MANNER WHATSOEVER EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT/CONTRACTOR. THE PLANS AND SPECIFICATIONS ARE BASED UPON THE TYPES OF STRUCTURE/S SHOWN IN THE DRAWINGS LISTED IN THE INDEX OF DRAWINGS. IN THE EVENT OF MODIFICATION/S BY THE OWNER, THE CONTRACTOR AND THE SUBCONTRACTOR/S ASSIGNED BY THE CONTRACTOR WILL BE HELD HARMLESS AND ALL PARTIES WAIVE ALL RIGHTS AGAINST THE CONTRACTOR. FURTHER, NO ADDITIONAL CLAIMS WILL BE AUTHORIZED AS A RESULT OF SUCH MODIFICATION. THE CONTRACTOR WILL BE RELEASED FROM ALL LIABILITY ASSOCIATED WITH ANY OF SUCH MODIFICATION. ANY REPRODUCTION OF THIS ENGINEERED DOCUMENT WITHOUT THE PRIOR CONSENT OF THE "ENGINEER OF RECORD" IS STRICTLY PROHIBITED.
8. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. WHERE DISCREPANCIES EXIST WITHIN THE DRAWINGS, ENLARGED SCALE DRAWINGS/DETAILS WILL GOVERN OVER SMALLER SCALE DRAWINGS AND

THE SPECIFICATIONS WILL GOVERN OVER ALL. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERSEDE IN ALL CASES.

9. ALL FEATURES NOT LABELED AS "NEW", "PROPOSED", OR "TO BE REMOVED" WILL BE CONSIDERED TO BE "EXISTING TO REMAIN".
10. NO EXCAVATION WILL BE PERFORMED ON THIS PROJECT. HOWEVER, SHOULD IT BE NECESSARY, THE CONTRACTOR SHALL NOTIFY "SUNSHINE STATE 1-CALL (1-800-432-4770) 48 HOURS PRIOR TO ANY EXCAVATION ON SITE. ALL UTILITY LOCATIONS ARE APPROXIMATE. OWNER WILL PROVIDE ANY/ALL UTILITY INFORMATION I.E., CONDUITS, ON SITE ELECTRIC, DRAINAGE, PRODUCT PIPING, ETC. PRIOR TO COMMENCEMENT OF ANY EXCAVATION.
11. THE CONTRACTOR WILL NOTIFY THE LOCAL AND COUNTY FIRE DEPARTMENT AND BUILDING DEPARTMENT 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY PROPOSED CONSTRUCTION.
12. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF "AS BUILT" DRAWINGS TO SCALE DEPICTING PRECISE LOCATIONS OF ALL COMPONENTS INSTALLED (INCLUDING PRODUCT LINE SIZES, LOCATIONS, CONDUCT SIZES, AND LOCATIONS).

CONSTRUCTION GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE ALL WORK WITH DRAWINGS BY ENGINEERS FOR ALL AFFECTED DISCIPLINES.
2. THE CONTRACTOR SHALL CHECK AND COORDINATE THE WORK OF VARIOUS TRADES TO PREVENT ANY CONFLICTS.
3. THE CONTRACTOR WILL ENSURE THAT ALL MATERIALS AND EQUIPMENT INCORPORATED IN THE WORK WILL BE NEW AND ALL WORK WILL BE OF GOOD QUALITY, FREE FROM FAULTS AND IN CONFORMANCE WITH THE PLANS.
4. THE STORAGE TANK AND SYSTEM COMPONENTS SHALL BE APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), STORAGE TANKS, PIPING, AND SYSTEM COMPONENTS WILL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND MANUFACTURER REQUIREMENTS.
5. CONTRACTOR SHALL FURNISH AND PLACE PROPER GUARDS FOR PREVENTION OF ACCIDENTS. ALL TRENCH AND EXCAVATION SHORING, SCAFFOLDING, SHIELDING, DUCT/FUME PROTECTION, MECHANICAL/ELECTRICAL PROTECTION, SPECIAL GROUNDING, SAFETY RAILING, BARRIERS OR OTHER SAFETY FEATURES REQUIRED TO SECURE THE SAFETY OF LIFE OR PROPERTY.
6. NO EXCAVATION WILL BE PERFORMED ON THIS PROJECT. HOWEVER, SHOULD IT BECOME NECESSARY TO CONDUCT ANY EXCAVATION, THE OWNER SHALL BE RESPONSIBLE FOR INSTALLING, MAINTAINING, AND REMOVING ANY AND ALL EROSION CONTROL MEASURES AND SEDIMENT CONTROL DEVICES NECESSARY TO PREVENT SOIL EROSION AND/OR SEDIMENT FROM BEING TRANSPORTED OFF-SITE AND INTO ANY DRAINAGE SYSTEMS, VEGETATED AREAS, AND/OR ROADWAYS.
7. THE CONTRACTOR SHALL BE AWARE THAT SOILS AND GROUNDWATER SUBJECT TO THIS SCOPE OF WORK MAY CONTAIN HAZARDOUS CHEMICAL CONSTITUENTS. ALL MATERIALS EXCAVATED AND REQUIRING OFF-SITE DISPOSAL SHALL BE TESTED AND HANDLED IN ACCORDANCE WITH RULE 62-780, FLORIDA ADMINISTRATIVE CODE (F.A.C). PERSONAL PROTECTION HIGHER THAN A LEVEL D MAY BE REQUIRED IN PERFORMING A PORTION OR ALL OF THIS SCOPE OF WORK.

8. ALL BOLTS, CLIPS, HANGERS ETC. SHALL BE GALVANIZED (G90 MINIMUM). ALL WOOD SHALL BE PRESSURE TREATED. ALL FORMS SHALL BE WET JUST PRIOR TO PLACING CONCRETE. ALL BOLTS, ANCHORS, FASTENERS ATTACHMENTS, ETC. SHALL BE TYPE 316L STAINLESS STEEL.
9. INSTALL EQUIPMENT AND SYSTEMS IN NEAT AND PROFESSIONAL MANNER: INSTALL EQUIPMENT AND PARTS THAT ARE EASILY ACCESSIBLE FOR INSPECTION, OPERATION, MAINTENANCE AND REPAIR.
10. UPON COMPLETION OF ALL INSTALLATION ACTIVITIES, THE CONTRACTOR WILL PERFORM BASIC JOB SITE CLEANUP AS IT RELATES SPECIFICALLY TO THIS PROJECT.

ELECTRICAL GENERAL NOTES:

1. ALL ELECTRICAL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE NATIONAL FIRE PROTECTION ASSOCIATION-70 (NFPA-70), NATIONAL ELECTRICAL CODE, AND OTHER APPLICABLE CODES AND STANDARDS. THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR EVALUATING FIELD CONDITIONS BY VISITING THE SITE PRIOR TO COMMENCING/BIDDING WORK. ELECTRICAL CONTRACTOR
2. ALL MATERIALS SHALL BE U.L. APPROVED. ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED. ALL EMPTY CONDUITS TO BE PROVIDED WITH NYLON PULL STRINGS. ALL LUMINARIES SHALL BE PROPERLY SUPPORTED IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS AND LOCAL CODE REQUIREMENTS.
3. THESE DRAWINGS ARE A GUIDE FOR THE INSTALLATION OF ELECTRICAL SERVICE. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE A FUNCTIONING SYSTEM.
4. ALL CABLES SHALL BE RUN WITHOUT SPLICES EXCEPT OTHERWISE INDICATED. ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES. EXACT POINT AND METHODS OF CONNECTION SHALL BE DETERMINED IN FIELD. ALL PULL AND JUNCTION BOXES SHALL BE ACCESSIBLE AT ALL TIMES. ALL WORK SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER.

GENERAL DEMOLITION NOTES:

1. SCOPE OF DEMOLITION INVOLVES REMOVAL AND DISPOSAL OF ONE. 12,000 GALLON VEHICULAR DIESEL AND ONE 10,000 GALLON UNLEADED GASOLINE UNDERGROUND STORAGE TANKS. ASSOCIATED PIPING, TWO DISPENSERS, AND ANCILLARY EQUIPMENT.
2. THE EXISTING CONDITION/DEMOLITION IS SHOWN IN SHEET No. EE1.6 AND IS INTENDED AS A GENERAL GUIDE TO THE DEMOLITION REQUIRED FOR THIS PROJECT
- 3.

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FLORIDA LICENSE NO. 28376

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Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	NTS
Date:	01-03-2014

Project Number:
021322

Title:
GENERAL NOTES

Sheet Number:
FIGURE
3

SCOPE OF WORK

THE WORK DESCRIBED BELOW INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

THE SCOPE OF WORK INVOLVES CLOSURE VIA REMOVAL OF ONE (1) 20,000 GALLON SINGLE WALLED ABOVEGROUND USED OIL-MATERIAL STORAGE TANK (AST) (T-11), INSTALLATION OF ONE (1) EQUIVALENT 20,000 GALLON SINGLE WALLED VERTICAL AST (T-11A), INSTALLATION OF ONE (1) 20,000 GALLON SINGLE WALLED HORIZONTAL CYLINDRICAL AST (T-22), AND APPROVED EQUIPMENT, ASSOCIATED SINGLE WALL STEAM SYSTEMS & FUEL OIL PIPING, AND APPURTENANCES.

THE FACILITY CURRENTLY CONSISTS OF SEVENTEEN (17) TANKS RANGING FROM 1,000 GALLONS TO 20,000 GALLONS AND ONE (1) 100,000 GALLON TANK. THE FACILITY IS AUTHORIZED TO STORE AND USE A TOTAL OF 358,000 GALLONS OF USED OIL IN THE ABOVE GROUND STORAGE TANKS AND RELATED APPURTENANCES CURRENTLY IN USE AT THE FACILITY. THE STORAGE TANK FARMS ARE LOCATED OUTDOORS, FENCED, AND/OR WALLED ON ALL SIDES WITH SEPARATE CONCRETE FLOOR SECONDARY CONTAINMENT STRUCTURES. BASED ON THE CURRENT PERMIT, DATED MAY 7, 2013, THE FACILITY IS AUTHORIZED TO PROCESS USED OIL, OILY WASTEWATER, OILY SOLID WASTE, USED OIL FILTERS, AND COLLECT PETROLEUM CONTACT WATER. NON-HAZARDOUS WASTE WATER IS COLLECTED AND TRANSFERRED INTO A 100,000-GALLON SURGE TANK DESIGNATED AS TANK T-21, THEN FILTERED, THEN HEATED FOR OIL/WATER SEPARATION (WATER FRACTION ONLY), AND THEN TRANSFERRED TO AN OFFSITE INDUSTRIAL WASTE WATER PRE-TREATMENT FACILITY FOR TREATMENT AND DISPOSAL. GEOTECH UNDERSTANDS THAT THE CLIENT HAS A DESIRE TO INCREASE THE PROCESSING OF USED OIL FROM THE EXISTING +/-10,000 GALLON CAPACITY IN THE EXISTING HORIZONTAL TANK T-7 TO A TOTAL OF +/-30,000 GALLON THRESHOLD CAPACITY WHILE UTILIZING THE EXISTING FULTON VERTICAL MULTI-PORT GAS FIRED STEAM BOILER, PARTIAL EXISTING STEAM PIPING, AND USED OIL SUPPLY AND RETURN LINES AT THE FACILITY.

TASK 1 - CLOSURE OF OLD 20,000 GALLON VERTICAL AST (T-11)

T-11 IS A 20,000-GALLON AST (10.5' DIAMETER X 31' HIGH) AND LOCATED IN A SECONDARY CONTAINMENT #1. IT WAS INSTALLED IN CIRCA 1987 AND HAS BEEN OUT OF SERVICE SINCE NOVEMBER 6, 2003. PURSUANT TO PARAGRAPH 62-4.050(4)(S), F.A.C., GEOTECH CONSIDERS REPLACEMENT OF EXISTING TANK WITH NEW TANK OF SAME SIZE AS A MINOR MODIFICATION THAT WILL NOT REQUIRE SUBSTANTIAL TECHNICAL EVALUATION BY THE FDEP, NOR WILL IT REQUIRE A NEW SITE INSPECTION, AND WILL NOT LEAD TO SUBSTANTIALLY DIFFERENT ENVIRONMENTAL IMPACTS AND WILL LESSEN THE IMPACTS OF THE ORIGINAL PERMIT. GEOTECH HAS LEARNED FROM CONVERSATIONS WITH FDEP, THAT A \$250.00 PERMIT FEE WILL BE REQUIRED AS A MINOR MODIFICATION TO THE EXISTING PERMIT BY THE FDEP.

TASK 2 - INSTALLATION OF NEW PERMANENT 20,000 GALLON VERTICAL AST (T-11A)

GEOTECH PROPOSES TO INSTALL ONE (1) 20,000-GALLON ABOVEGROUND SINGLE WALL CYLINDRICAL VERTICAL ATMOSPHERIC STORAGE TANK, FLAT BOTTOM, CONICAL TOP (2/12), STANDARD FITTINGS, 24" ROOF MAN-WAY, 24" SHELL MAN-WAY, WITH (6) HOLD DOWN CHAIRS FOR ANCHORING TO THE EXISTING

CONCRETE, AND PAINTED WITH UNIVERSAL RED PRIMER. THE TANK WILL BE IN THE SAME LOCATION OF THE PREVIOUS TANK AREA AND HAVE SIMILAR AST MAN-WAY, PIPING SIZE AND TYPE, AND FITTING CONFIGURATIONS TO THE OLD AST SYSTEM.

BEFORE BEGINNING WORK, GEOTECH WILL PROVIDE ALL NEW TANK AND EQUIPMENT SPECIFICATION LIST FOR CLIENT REVIEW AND APPROVAL (SEE TABLE 1 IN TASK 5 FOR EQUIPMENT LIST). CLIENT WILL MAKE ALL PAYMENTS FOR THE NEW EQUIPMENT ITEMIZED IN TABLE 1 TO THE SUPPLIERS. CLIENT WILL BE RESPONSIBLE FOR COMMUNICATING WITH THE VENDORS SUPPLYING EQUIPMENT ON PRICING, PAYMENT AND TIMELY DELIVERY SCHEDULE PROPOSED BY GEOTECH. ALL WARRANTIES ON THE LISTED EQUIPMENT ARE BETWEEN VENDOR AND CLIENT. ALL WORK WILL BE CONDUCTED IN ACCORDANCE TO THE PROPOSED ENGINEERING PLANS DISCUSSED IN TASK 2. ALL PHASES OF THE TANK, PRODUCT LINE, AND EQUIPMENT INSTALLATION SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS AND STANDARDS. THE TANK WILL BE ANCHORED TO THE EXISTING CONCRETE TO MEET THE ENGINEERING PLANS SPECIFICATIONS. EXCEPT AS OTHERWISE SPECIFIED AND ALSO IN TABLE 1, ALL EQUIPMENT SUPPLIED BY GEOTECH WILL BE GUARANTEED TO THE FULLEST EXTENT OF THE MANUFACTURER'S WRITTEN WARRANTY. ALL INSTALLATION WORK WILL BE GUARANTEED AGAINST DEFECTS IN WORKMANSHIP FOR ONE YEAR FROM THE DATE OF START-UP. ELECTRICAL WORK IS NOT PROPOSED FOR THIS PHASE OF TASK 4. TANK LABELING WILL BE CONDUCTED BY THE CLIENT. GEOTECH ASSUMES THAT THE EXISTING CONCRETE STRENGTH IS WITHIN GUIDELINES THAT MEET OR EXCEED THE TANK MANUFACTURER AND REGULATORY REQUIREMENTS. PRODUCT LINE INTEGRITY TESTING WILL BE CONDUCTED AT VARIOUS STAGES DURING INSTALLATION PROCESS.

TASK 3 - INSTALLATION OF NEW PERMANENT 20,000 GALLON HORIZONTAL PROCESS AST (T-22)

THE PROPOSED AREA FOR THE NEW T-22 AST REQUIRES REMOVAL OF APPROXIMATELY EIGHT (8) EXISTING CONCRETE PADS APPROXIMATELY 5 SQUARE FEET CURRENTLY LOCATED IN SECONDARY CONTAINMENT #4 AND WITHIN THE PROPOSED NEW AST T-22 AREA. THE SCOPE OF WORK WILL INCLUDE PROPER DISPOSAL OF CONCRETE AND ADEQUATELY GRADING OF THE NEW TANK PAD AREA SPECIFIC TO THE TANK SADDLE LOCATION. CONCRETE STRENGTH TESTING IS NOT PROPOSED AND GEOTECH ASSUMES THAT THE EXISTING CONCRETE CONSIST OF AT A MINIMUM, WITHIN THE GUIDELINES THAT MEET OR EXCEED THE TANK MANUFACTURER'S AND REGULATORY REQUIREMENTS.

UPON CONCRETE SLAB REMOVAL, GEOTECH PROPOSES TO INSTALL CLIENT PROVIDED ONE (1) 20,000 GALLON ABOVEGROUND SINGLE WALLED UL-142 CYLINDRICAL ATMOSPHERIC STORAGE TANK, (2) PLATE SADDLES WELDED ON, STANDARD NPT TANK FITTINGS, (3) 24" MAN-WAYS, EPOXY PRIMER WITH A WHITE URETHANE EXTERIOR FINISH. THE TANK WILL INCLUDE A 14-FEET LONG TANK TOP CATWALK WITH STAIRS (ALL ITEMS CONSTRUCTED OF STEEL & HOT DIPPED GALVANIZED). KEY EQUIPMENT LIST IS PROVIDED BELOW IN TABLE 1. AS INDICATED, CLIENT WILL BE RESPONSIBLE FOR TIMELY PAYMENTS TO VENDORS FOR THE NEW EQUIPMENT ITEMIZED IN TABLE 1 AND DELIVERY OF EQUIPMENT TO THE FACILITY. ALL WARRANTIES ON THE LISTED EQUIPMENT ARE BETWEEN VENDOR AND CLIENT. THE TANK MANUFACTURER WILL FABRICATE INSIDE THE TANK WITH APPROXIMATELY +/-275 LINEAR FEET (LF) OF +/-2-INCH DIAMETER SCHEDULE 40 PIPE COIL (STRAIGHT RUNS WITH 180 DEGREES RETURNS EACH SET CONSISTING OF EIGHT (8) RUNS OF

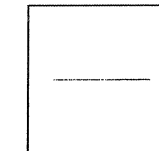
PIPE (EACH PIPE APPROX. 33'-6" LONG) STEAM BOILER PIPING LOCATED AT THE BOTTOM OF THE TANK THAT MEETS THE ASTM SPECIFICATIONS REQUIRED FOR CONNECTION TO THE EXISTING FULTON VERTICAL MULTI-PORT GAS FIRED STEAM BOILER. GEOTECH WILL UTILIZE EXISTING PIPING ALREADY IN PLACE WITHIN SECONDARY CONTAINMENT #4. GEOTECH WILL RETAIN A FLORIDA LICENSED ELECTRICIAN TO PROVIDE ELECTRICAL CONNECTION TO THE NEW STORAGE SYSTEM WHICH SHALL INCLUDE. GEOTECH ASSUMES THAT THE FACILITY HAS SUFFICIENT LOAD AND WILL NOT REQUIRE SEPARATE 120/240 PHASE CIRCUIT PANEL FOR THE NEW TANK EQUIPMENT. ALL ELECTRICAL WORK WILL BE CONDUCTED IN ACCORDANCE TO THE NATIONAL ELECTRICAL CODE, NFPA 70, NATIONAL FIRE PROTECTION ASSOCIATION AND LOCAL CODES. THE ELECTRICAL CONTRACTOR PROPOSES TO CONDUCT THE FOLLOWING:

RUN NEW CONDUITS AND CONDUCTORS FOR THE NEW AST, PUMPS, AND MIXERS
 INSTALL ELECTRICAL RACK AND TIE INTO HOME RUN CONDUITS AT EXISTING ELECTRICAL LOCATION. THE ELECTRICIAN WILL RUN ELECTRICAL WIRES TO EXISTING GUTTER ALREADY IN PLACE FOR THE BOILER AND PULL NEW CONDUCTORS FROM GUTTER TO TANK.
 PULL NEW CONDUCTORS FOR TANK PUMPS, MOTORS TO BUILDING RELAYS AND PULL NEW POWER FEEDS AS PER SPECIFICATIONS AND NATIONAL ELECTRICAL CODE. MAKE CONNECTIONS AND PROPERLY LABEL CABLES. THE SCOPE OF WORK INCLUDES INSTALLATION OF NEW ISOLATION RELAYS FOR PUMPS AND MOTORS AND WIRE INTO SYSTEM AND CONNECTIONS AS PER SPECIFICATIONS.

TANK AND ALL PRODUCT LINE TESTING WILL BE CONDUCTED AT VARIOUS STAGES DURING INSTALLATION PROCESS. ALL SENSORS TANK GAUGES, AND PUMPS WILL BE VERIFIED FOR PROPER OPERATION. IF ANY EQUIPMENT IS FOUND TO BE FAULTY AND OR DEFECTIVE, CLIENT AT THEIR EXPENSE WILL BE RESPONSIBLE FOR RE ORDERING THE EQUIPMENT. AS A RESULT, ANY DELAYS CAUSED BY CLIENT AT THIS TIME WILL RESULT IN JOB STOPPAGE AND A CHANGE ORDER WILL BE ISSUED. GEOTECH WILL PROVIDE CLIENT "AS-BUILT" INSTALLATION DRAWINGS, AS WELL AS RECOMMENDED TEST PROCEDURES, MAINTENANCE SCHEDULES UPON FIELD VERIFICATION, REGULATORY APPROVALS, AND COMPLETION OF STARTUP.

HAZARD IDENTIFICATION SIGNS

AS REQUIRED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODE 704, "STANDARD SYSTEM FOR THE IDENTIFICATION OF THE HAZARDS OF MATERIALS FOR EMERGENCY RESPONSE" CURRENT EDITION: 2007 (NEXT REVISION CYCLE: ANNUAL 2011), CLIENT WILL PROVIDE APPROPRIATE LABELING REQUIREMENTS FOR THE USED OIL (T-11R). TANK WILL ALSO HAVE THE FOLLOWING LABELING IN 3-INCH LETTERING (DECAL). THE LABEL SPECIFICATIONS WILL DESCRIBE EACH TANK BY SIZE, CONTENTS, AND USE. FOR EXAMPLE AN 20,000 GALLON ABOVE GROUND EQUIPMENT USED OIL TANK WILL BE SHOWN AS (20K-AST-UO), ETC. THE PLACARDS SHOWN BELOW WILL BE PLACED ON ALL FOUR SIDES OF THE TANK.



(14) DIESEL PLACARD

04042014

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 DAVIE, FL 33314

Engineer:	SLB	SLB	N.L.	Date:	01-03-2014
Drawn By:					
Checked By:					
Scale:	NTS				

Project Number:
 021322

Title:
 SCOPE OF WORK

Sheet Number:
 FIGURE 4

Revisions:	
3-12-14	"AS BUILTS"

EQUIPMENT SPECIFICATION SHEET							
No.	Product	Manufacturer	EQ No	No.	Product	Manufacturer	EQ No
1	20,000 GAL. HORIZONTAL ABOVE GROUND TANK	MODERN WELDING CO.	352				
2	20,000 GAL. VERTICAL ABOVE GROUND TANK	MODERN WELDING CO.	352				
3	ONE OPEN ATMOSHERIC VENT OPW 23-0055	OPW	NA				
4	ONE 10 HP ELECTRIC TRANSFER PUMP	ROPER	NA				
5	TWO 2 HP ELECTRIC MIXERS FGP-200	SHARPE	NA				
6	ONE STEAM PUMP	SPIREX SARCO	NA				
7	3" GALV. SCH. 40 SUPPY & RETURN PIPE	A&B PIPING SUPPLY	NA				
8	PIPE FITTINGS	A&B PIPING SUPPLY	NA				
9	FIRE MARSHALL SIGN - WARNING	NFPA - 30A	NA				

NA: NOT APPLICABLE

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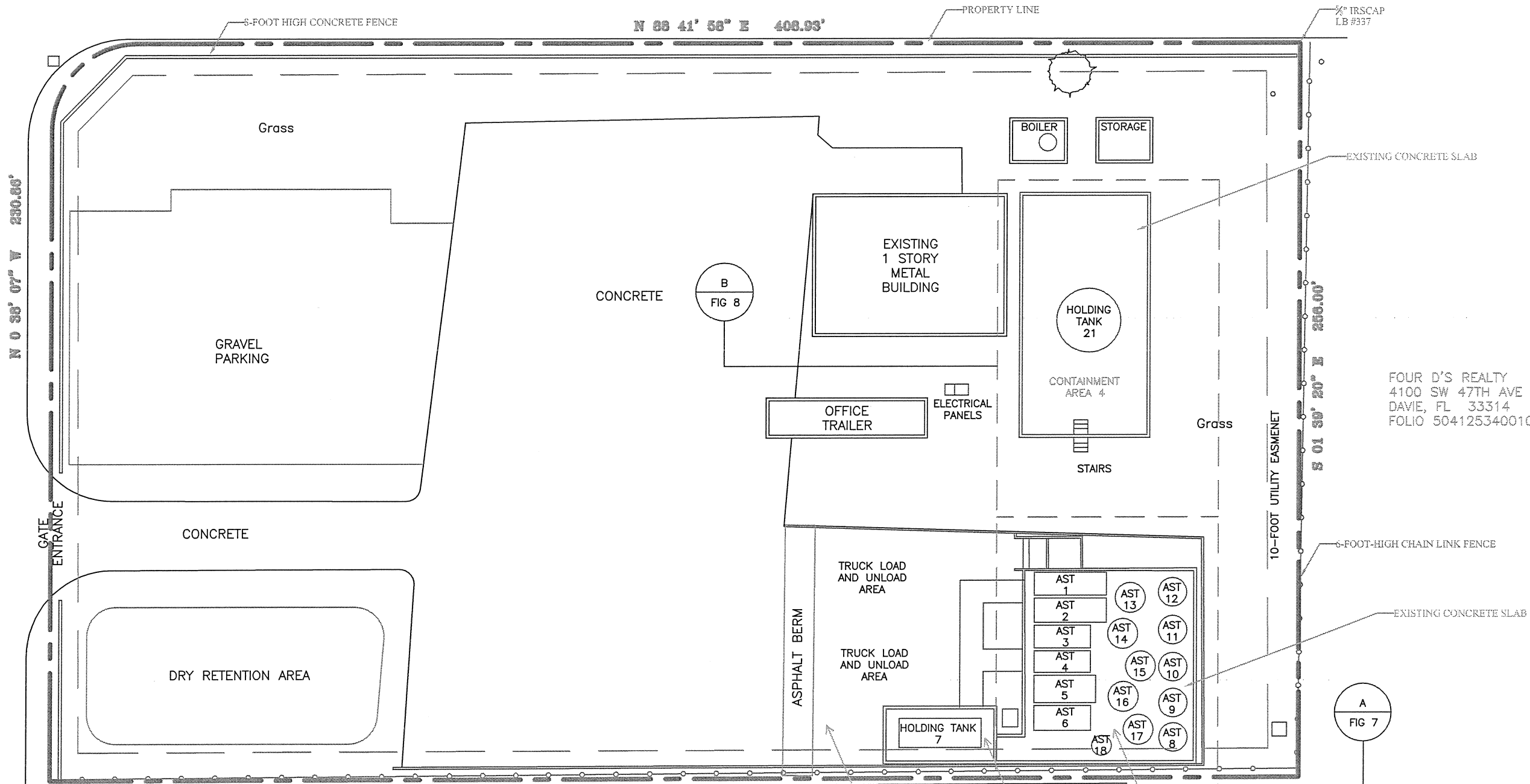
Engineer:	SLB	SLB	N.L.	Date:	01-03-2014
Drawn By:	SLB	SLB	N.L.	Scale:	NTS
Checked By:	SLB	SLB	N.L.	Project Number:	021322

Title:
EQUIPMENT SPECIFICATION SHEET

Sheet Number:
FIGURE
5

SW 36th STREET (OAKES RD)

SW 47th AVENUE



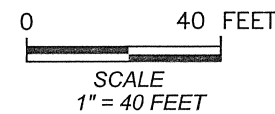
LEGAL DESCRIPTION
I.R.R. PLAT 158-4 B PARCEL A

NOTES:

GROSS SITE AREA: 110,670 SQ FT
EXISTING ZONING: M-4
FLOOD ZONE: UNKNOWN
THERE ARE NO ENVIRONMENTAL SENSITIVE AREAS ON THIS SITE. ELEVATIONS WERE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929, BROWARD COUNTY.

THIS MAP WAS RE-CONSTRUCTED FROM (CLIENT PROVIDED) A DRAWING CREATED BY KEITH & SCHNARS DATED JANUARY 7, 2000.

S 88 41' 58" W 434.17'
WP REAL ESTATE INVESTMENTS, LLC
FOLIO 504125280010



04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

GEOTECH ENVIRONMENTAL
BOARD OF PROFESSIONAL ENGINEERS CA No 7396
7737 North University Drive, Suite 206
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Client:
TRIMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

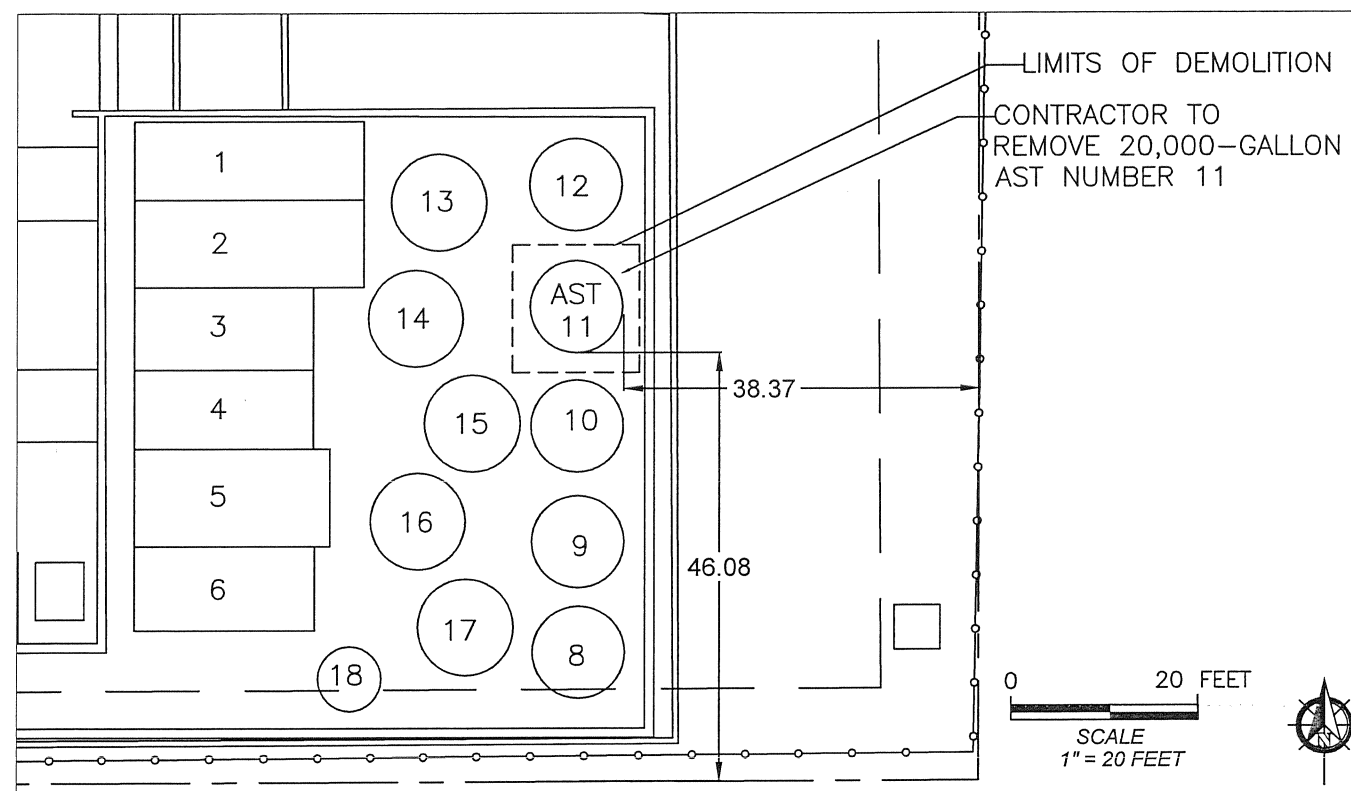
Engineer: SLB
Drawn By: SLB
Checked By: N.L.
Scale: 1 inch = 40 feet on 11x17
Date: 12-12-2013

Project Number:
021322

Title:
SITE PLAN

Sheet Number:
FIGURE 6

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



A CLOSURE PLAN FOR 20,000-GALLON AST
FIG 7 SCALE: 1" = 20'

434.17'

Location	Capacity (gals)	Product Stored	Install Date	Tank Diameter & Length	Tank Shell Thickness	Secondary Containment
AST #T1	8,000	Used Oil	01/89	8' x 21.5' H	3/8"	#1
AST #T2	8,000	Used Oil	01/89	8' x 21.5' H	3/8"	#1
AST #T3	6,000	Used Oil	04/89	8' x 16' H	3/8"	#1
AST #T4	6,000	Anti-Freeze	04/89	8' x 16' H	3/8"	#1
AST #T5	10,000	Used Oil	06/87	10' x 18' H	3/8"	#1
AST #T6	9,500	Used Oil	06/87	10.5' x 14.6' H	3/8"	#1
AST #T8	20,000	Used Oil	03/89	10.5' x 31' V	3/8"	#1
AST #T9	20,000	Used Oil/Oily Water	06/87	10.5' x 31' V	3/8"	#1
AST #T10	20,000	Used Oil/Diesel	06/87	10.5' x 31' V	3/8"	#1
T11	20,000	Out of Service	03/89	10.5' x 31' V	3/8"	#1
T12	20,000	Used Oil	03/89	10.5' x 31' V	3/8"	#1
T13	20,000	Used Oil	03/89	10.5' x 31' V	3/8"	#1
T14	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T15	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T16	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T17	20,000	Used Oil/Oily Water	04/89	10.5' x 31' V	3/8"	#1
T18 or Mixer**	6,500	Out of Service	01/93	8.5' x 16' V	3/8"	#1
T7	10,000	Used Oil/Oily Water	02/92	8' x 26' H	3/8"	#2
T20	1,000	Truck Diesel	01/89	5.33' x 6' H	3/8"	#5
T21	100,000	Used Oil	06/96	20' x 31' V	3/8"	#4
Drums	55-550	Haz and non-haz waste, oil filters or other petroleum, and cooking oil	NA	NA	NA	#3 and #6
T11R***	20,000	Used Oil/Oily Water	Prop: 01/14	10.5' x 31' V	3/8"	#1
T22****	20,000	Process Tank	Prop: 01/14	10' x 34.5' H	3/8"	#4

* The permit lists 358,000 gallons as the total facility capacity; individual tank fill volume calculated at 95% of used oil/oily water tank size
 ** T18 or Mixer AST has been out of service since 1989, therefore should not be included in the facility volume calculations
 *** T11R is a replacement of T11 with the same volume so there is no net add or loss to the permit volume or secondary containment
 **** T22 is a process tank that takes product from tank farm and no net add or loss to the permit volume or secondary containment

GENERAL CLOSURE ACTIVITIES FOR 20,000 GALLON VERTICAL ABOVEGROUND STORAGE TANK (AST) (T-11)

1. TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC (TEIFL) IS THE OWNER/OPERATOR OF A USED OIL AND MATERIAL PROCESSING (USED OIL PROCESSOR, TRANSPORTEER, OIL FILTER RECYCLER) FACILITY LOCATED AT 3670 SW 47TH AVENUE, DAVIE, FL. 33314. BASED ON THE CURRENT FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) PERMITS # 77390-HO-008 & 7739-SO-009, DATED MAY 7, 2013, THE FACILITY IS AUTHORIZED TO PROCESS USED OIL, OILY WASTEWATER, OILY SOLID WASTE, USED OIL FILTERS, AND COLLECT PETROLEUM CONTACT WATER. NON-HAZARDOUS WASTE WATER IS COLLECTED FROM VENDORS, FILTERED, HEATED FOR OIL/WATER SEPARATION (WATER FRACTION ONLY), AND THEN TRANSFERRED TO AN OFFSITE INDUSTRIAL WASTE WATER PRE-TREATMENT FACILITY FOR TREATMENT AND DISPOSAL.

THE FACILITY CURRENTLY CONSISTS OF SEVENTEEN (17) ASTS RANGING FROM 1,000 GALLONS TO 20,000 GALLONS AND ONE (1) 100,000 GALLON TANK. THE FACILITY IS AUTHORIZED TO STORE AND USE A TOTAL OF 358,000 GALLONS OF USED OIL IN THE ASTS AND RELATED APPURTENANCES CURRENTLY IN USE AT THE FACILITY. THE STORAGE TANK FARMS ARE LOCATED OUTDOORS, FENCED, AND/OR WALLED ON ALL SIDES WITH SEPARATE CONCRETE FLOOR SECONDARY CONTAINMENT STRUCTURES (SEE FIGURE 6).

2. THE SCOPE OF WORK INVOLVES CLOSURE VIA REMOVAL OF ONE (1) 20,000 GALLON SINGLE WALLED ABOVEGROUND USED OIL-MATERIAL STORAGE TANK (AST) (T11). T 11 (10.5' DIAMETER X 31' HIGH) IS LOCATED IN A SECONDARY CONTAINMENT #1 AS SHOWN IN FIGURE 6 AND 7, RESPECTIVELY. IT WAS INSTALLED IN JUNE 1987 AND HAS BEEN OUT OF SERVICE

SINCE NOVEMBER 6, 2003.

3. A CLOSURE PLAN IS REQUIRED FOR USED OIL PROCESSING FACILITIES WHEN CLOSING THE ENTIRE FACILITY AND IN ACCORDANCE WITH 40 CFR 279.54(H), AND SUBSECTION 62-710.800(3)(5), FLORIDA ADMINISTRATIVE CODE (F.A.C). IN ADDITION WITH THE APPROVED PERMIT, A CLOSURE PLAN DATED MARCH 18, 2003 WAS APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) ON MARCH 31, 2003. THE CLOSURE PLAN DESCRIBES THE MANNER IN THE USED OIL TREATMENT AND STORAGE TANK AREAS OF THE FACILITY WILL BE CLOSED IN ORDER TO SATISFY THE REQUIREMENTS OF THE CLOSURE PERFORMANCE PURSUANT TO RULE 62 710.800(3)(A), F.A.C. PURSUANT TO PARAGRAPH RULE 62-4.050(4)(S), F.A.C., GEOTECH CONSIDERS REPLACEMENT OF EXISTING TANK WITH NEW TANK OF SAME SIZE AS A MINOR MODIFICATION THAT WILL NOT REQUIRE SUBSTANTIAL TECHNICAL EVALUATION BY THE DIVISION AND FDEP, NOR WILL IT REQUIRE A NEW SITE INSPECTION, AND WILL NOT LEAD TO SUBSTANTIALLY DIFFERENT ENVIRONMENTAL IMPACTS AND WILL LESSEN THE IMPACTS OF THE ORIGINAL PERMIT. FURTHER, TEIFL IS REQUIRED TO CLOSE T11 IN COMPLIANCE WITH AND THE CLOSURE PLAN OF THE PERMIT APPLICATION DATED SEPTEMBER 18, 2012, AND REVISED, SUPPLEMENTED MODIFICATIONS OR SUBMISSIONS.

4. THE CLOSURE PLAN AT A MINIMUM WILL INCLUDE THE FOLLOWING:

- A. TEIFL WILL CONDUCT TESTING OF THE RESIDUE IN TANK T-11. IF THE RESIDUE IS HAZARDOUS, TEIFL WILL FOLLOW THE CLOSURE PLAN IN THE PERMIT APPLICATION AND REVISED OR SUPPLEMENTED SUBMISSIONS.
- B. TEIFL AS A LICENSED LIQUID WASTE CONTRACTOR, WILL TRIPLE RINSE THE TANK,

PIPING, AND ANCILLARY EQUIPMENT, AND PROPERLY DISPOSE ANY NON-HAZARDOUS RESIDUE AND DOCUMENT THE FINDINGS FOR SUBMITTAL TO FDEP AND THE DIVISION IN THE CLOSURE REPORT. TEIFL WILL EXERCISE CAUTION TO AVOID ANY SPILLAGE TO THE CONTAINMENT AREA AND THE GROUND.

C. GEOTECH WILL INSPECT THE TANK AND VERIFY THAT IT IS CLEAN AND READY FOR REMOVAL. GEOTECH WILL REMOVE T 11 AND PIPING AND PLACE IT ON LEVEL GROUND FOR GEOTECH ENGINEER AND PSSSC INSPECTION.

D. TEIFL WILL LOAD AND DISPOSE THE TANK AND PIPING TO A SCRAP STEEL DEALER AND PROVIDE DISPOSAL DOCUMENTATION TO GEOTECH, DIVISION, AND FDEP. THE DOCUMENTATION WILL INCLUDE (1). THE WEIGHT OF #1 HEAVY METAL SCRAP SOLD. (2). THE WEIGHT OF SCRAP DISPOSED AND HOW DISPOSED. (3). AN INVENTORY OF THE VALVES AND FITTINGS THAT WERE RETAINED FOR FUTURE APPLICATION. (4). A STATEMENT THAT THE TANKS AND PIPING HAVE BEEN COMPLETELY REMOVED AND THAT EVERYTHING REMOVED IS INCLUDED IN THE ABOVE LISTING.

E. GEOTECH ENGINEER WILL INSPECT THE EXISTING CONCRETE SLAB TO VERIFY USED OIL HAS NOT CONTAMINATED THE SOIL, SURFACE WATER OR GROUNDWATER.

ON BEHALF OF TEIFL, GEOTECH WILL SUBMIT A CERTIFICATION OF CLOSURE COMPLETION THAT DEMONSTRATES THAT THE AST WAS CLOSED IN SUBSTANTIAL COMPLIANCE WITH THE CLOSURE PLAN. PURSUANT TO SECTION 376.30701, F.S., THE CERTIFICATION WILL BE SIGNED BY THE OWNER OR OPERATOR OF THE FACILITY.

04042014

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

Revisions:
3-12-14--AS BUILTS'

GEOTECH ENVIRONMENTAL
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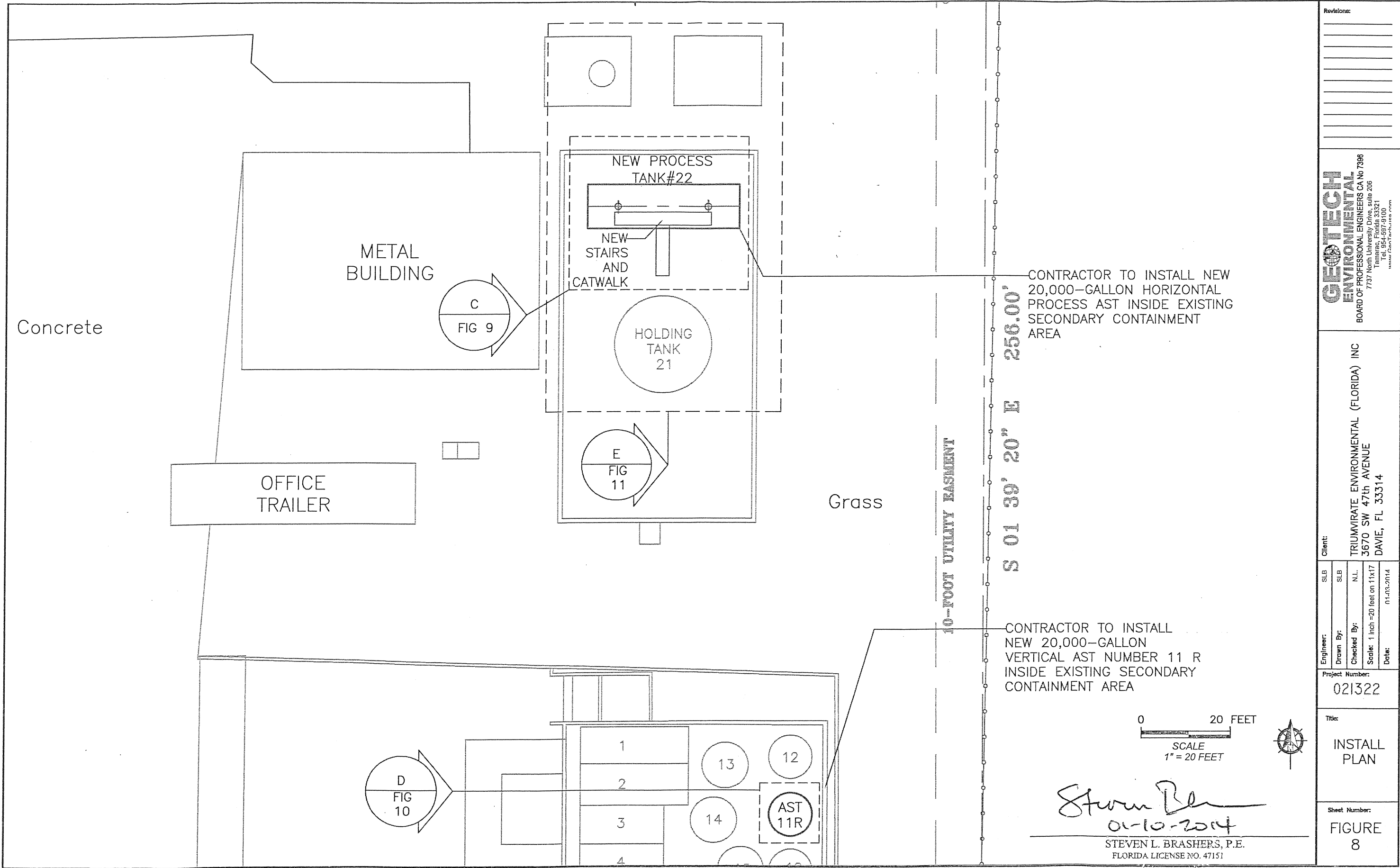
Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer: SLB
Drawn By: SLB
Checked By: N.L.
Scale: 1 inch = 20 feet on 11x17
Date: 01-03-2014

Project Number:
021322

Title:
CLOSURE PLAN

Sheet Number:
FIGURE 7



Revisions:

GEOTECH ENVIRONMENTAL
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Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
 3670 SW 47th AVENUE
 DAVIE, FL 33314

Engineer: SLB
 Drawn By: SLB
 Checked By: N.L.
 Scale: 1 inch = 20 feet on 11x17
 Date: 01-10-2014

Project Number:
 021322

Title:
 INSTALL PLAN

Sheet Number:
 FIGURE 8

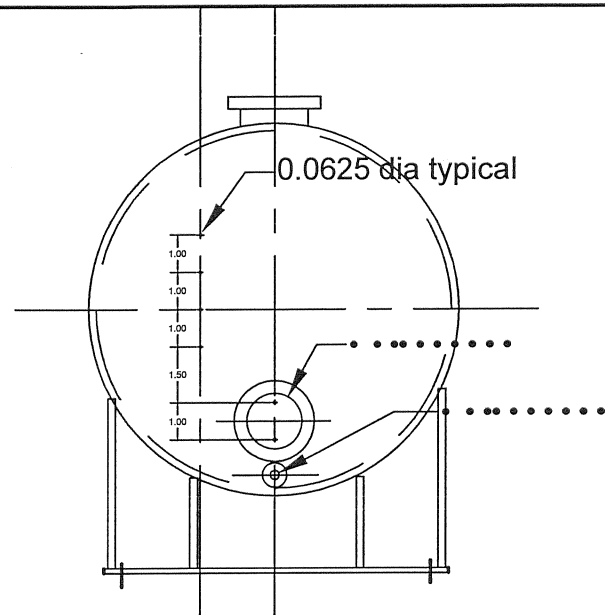
CONTRACTOR TO INSTALL NEW 20,000-GALLON HORIZONTAL PROCESS AST INSIDE EXISTING SECONDARY CONTAINMENT AREA

CONTRACTOR TO INSTALL NEW 20,000-GALLON VERTICAL AST NUMBER 11 R INSIDE EXISTING SECONDARY CONTAINMENT AREA

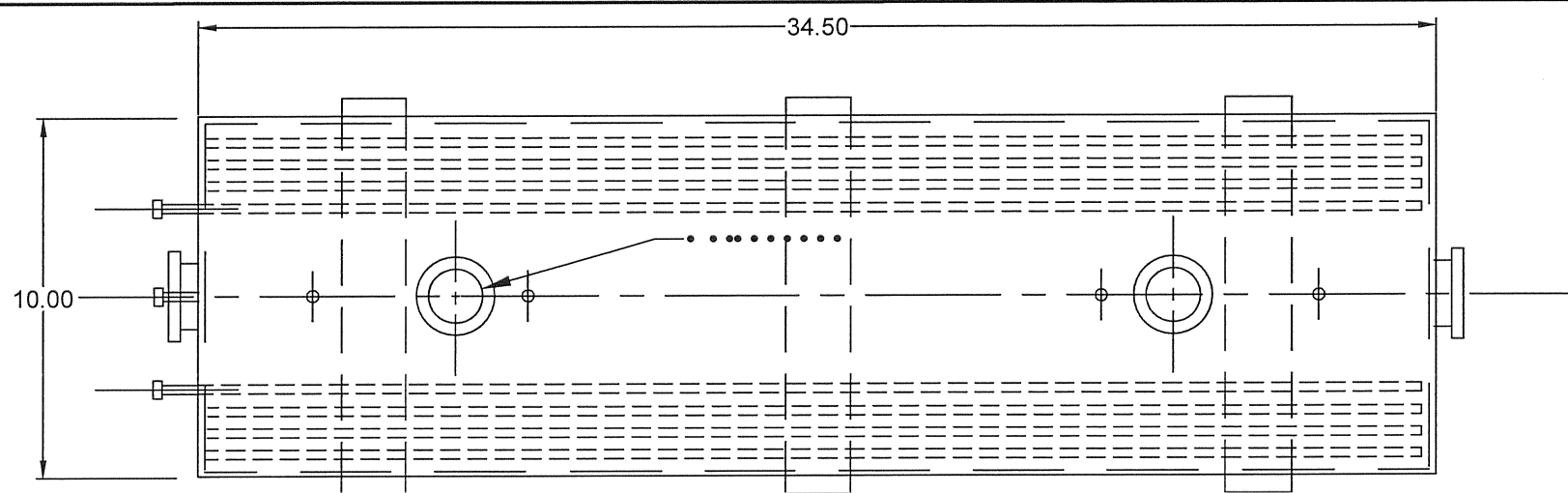
0 20 FEET
 SCALE
 1" = 20 FEET

Steven Br
 01-10-2014
 STEVEN L. BRASHERS, P.E.
 FLORIDA LICENSE NO. 47151

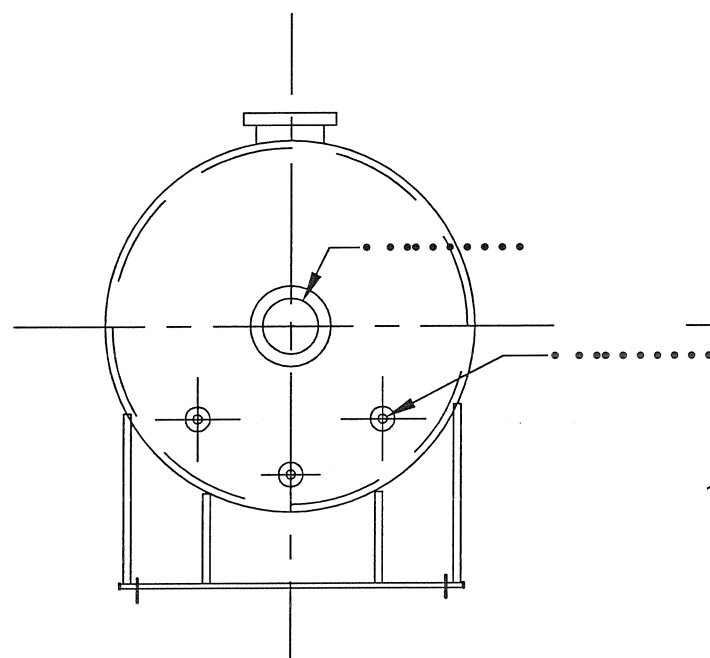
NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



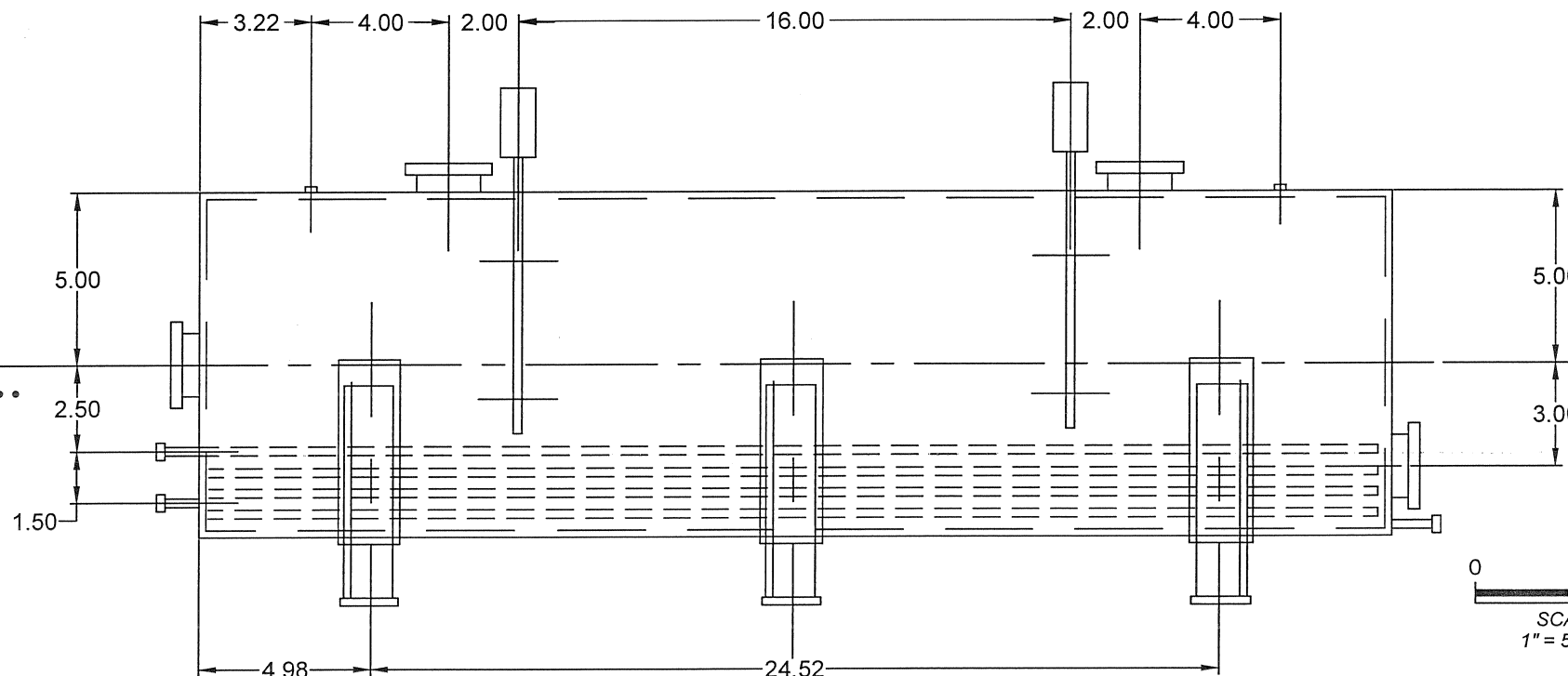
EAST
ELEVATION



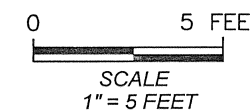
PLAN
VIEW



WEST
ELEVATION



SOUTH
ELEVATION



C 20,000-GALLON PROCESS AST DETAIL
FIG 10 SCALE: 1" = 5'

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FLORIDA LICENSE NO. 28376

Revisions:

3-12-14	"AS BUILTS"

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Client:
TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch = 5 feet on 11x17
Date:	01-03-2014

Project Number:
021322

Title:
20,000-GALLON
PROCESS
AST

Sheet Number:
FIGURE
9

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

Revisions:	
3-12-14	AS BUILTS

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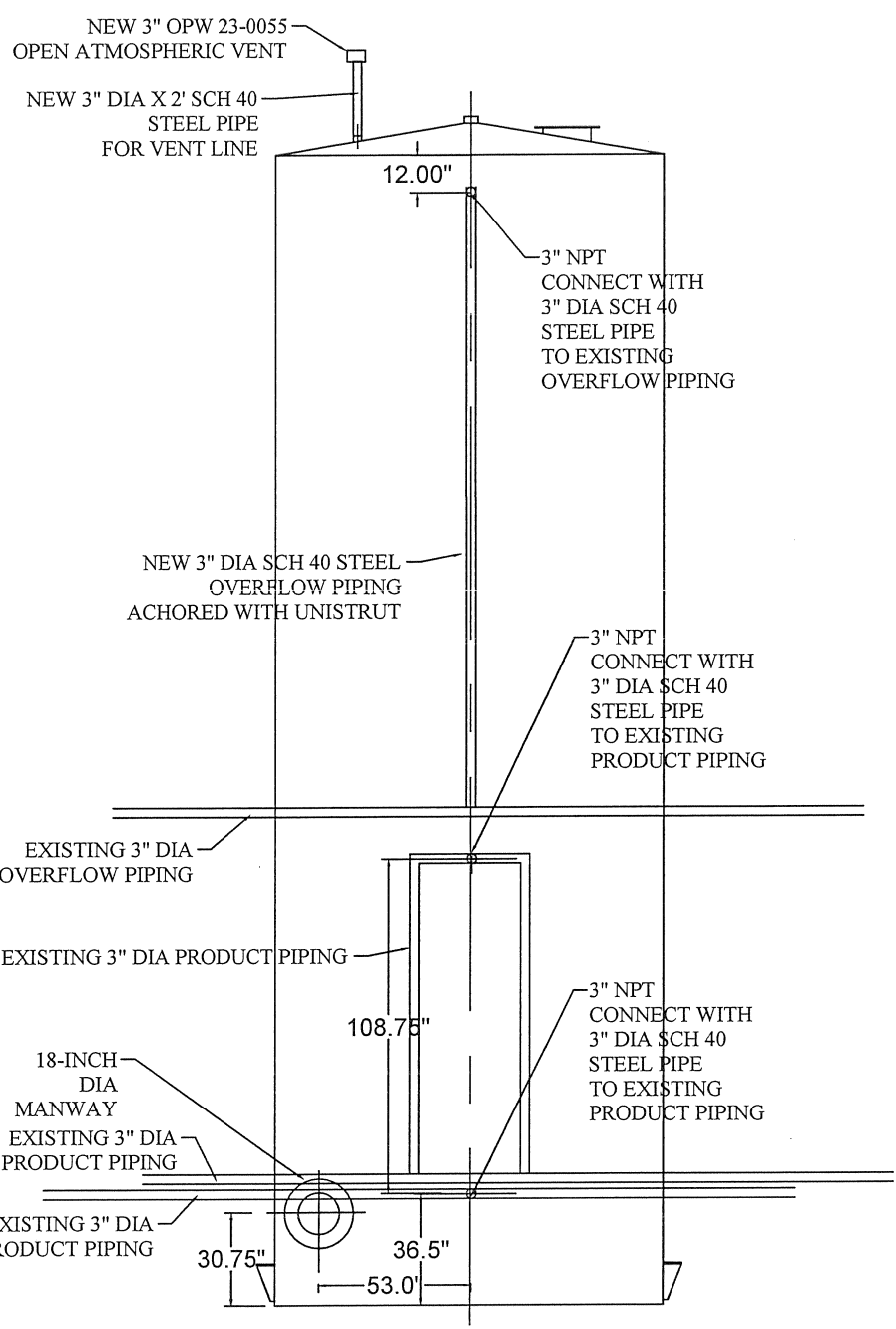
Client: **TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC**
 3670 SW 47th AVENUE
 DAVIE, FL 33314

Engineer: [Blank]
 Drawn By: [Blank]
 Checked By: [Blank]
 Scale: 1 inch = 5 feet on 11x17
 Date: 01-03-2014

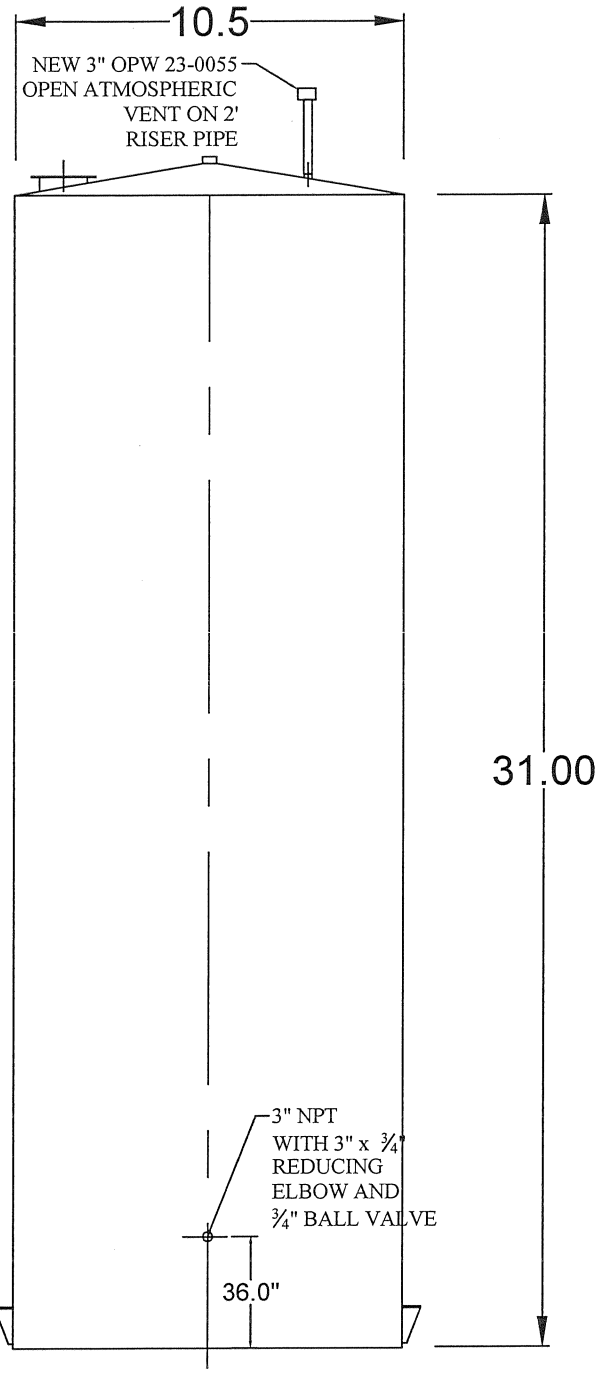
Project Number: **021322**

Title: **20,000-GALLON VERTICAL AST**

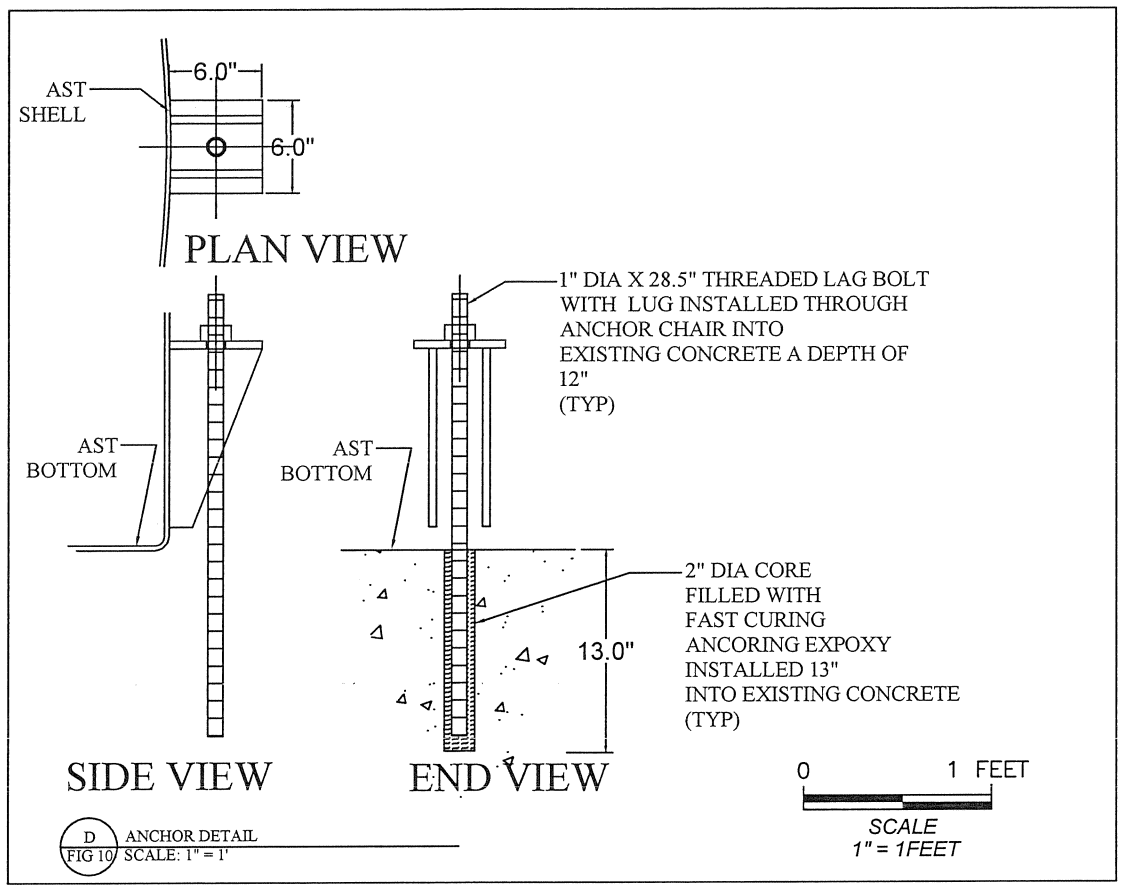
Sheet Number: **FIGURE 10**



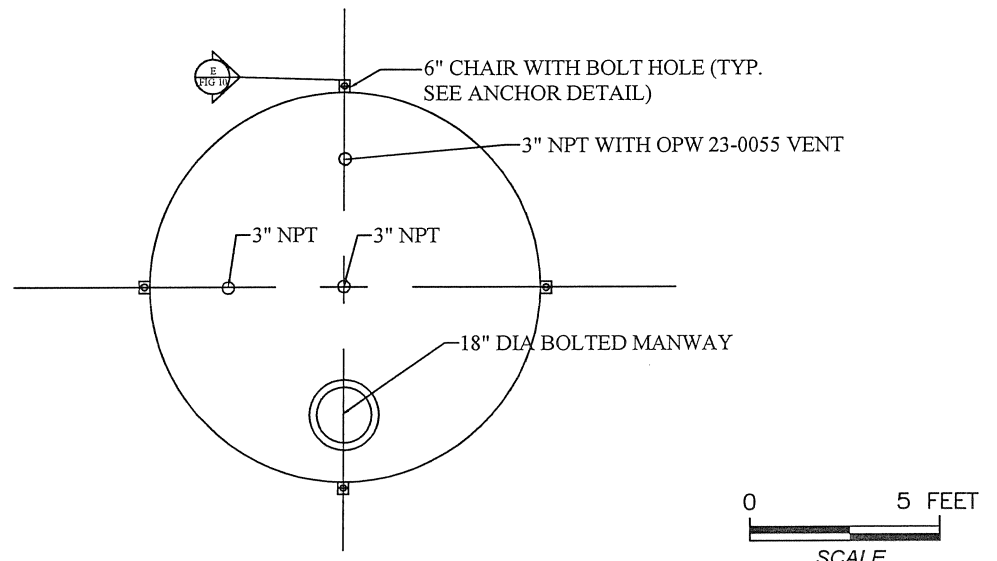
WEST SIDE



EAST SIDE
20,000 GALLON CAPACITY



D ANCHOR DETAIL
FIG 10 SCALE: 1" = 1'

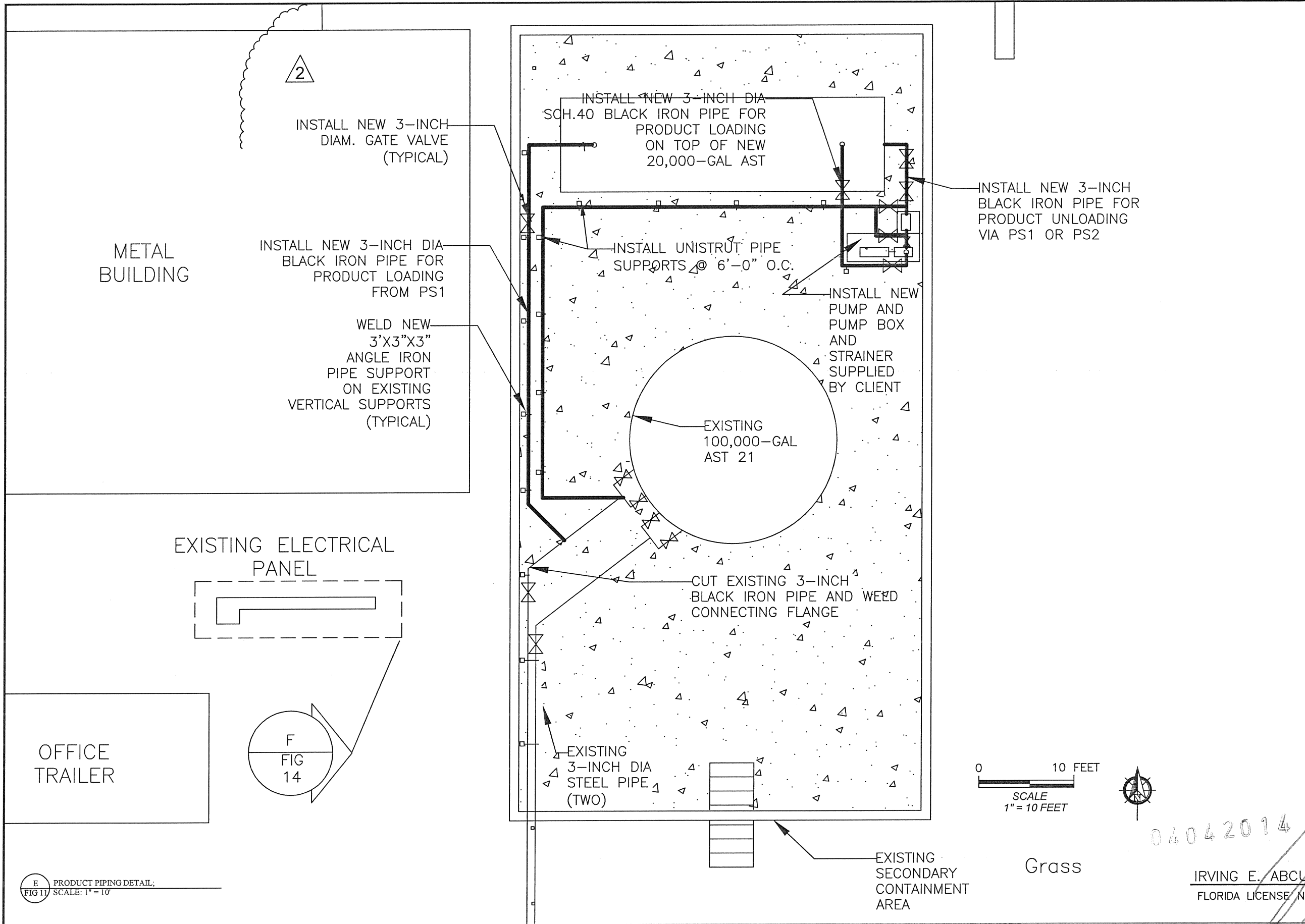


PLAN VIEW
04042014

D 20,000-GALLON VERTICAL HOLDING AST
FIG 11 DETAIL(T-11R)
SCALE: 1" = 5'

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 FLORIDA LICENSE NO. 28376

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E PRODUCT PIPING DETAIL, FIG 11 SCALE: 1" = 10'

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 DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch = 10 ft on 11x17
Date:	01-03-2014

Project Number: 021322

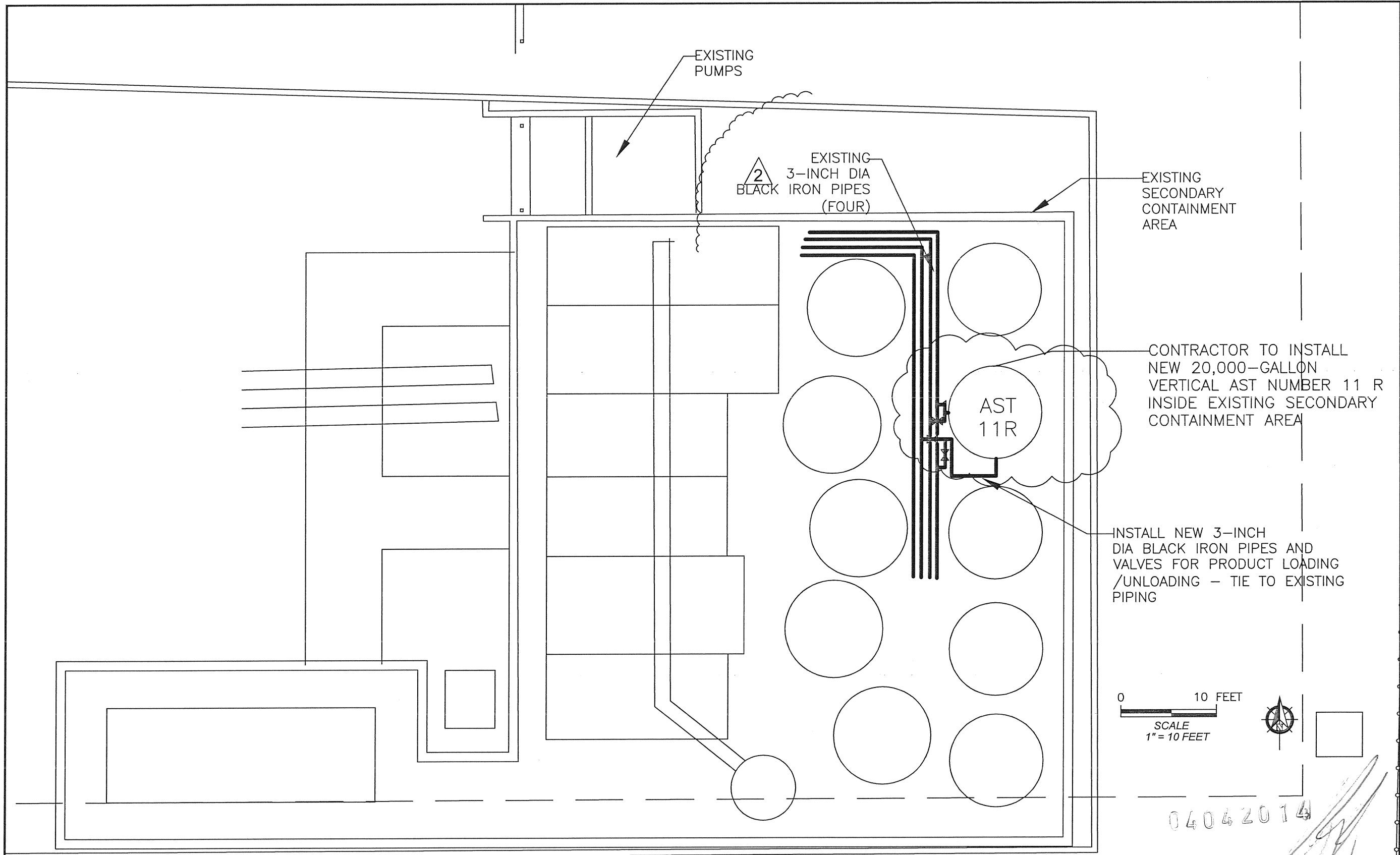
Title: PRODUCT PIPING

Sheet Number: FIGURE 11

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 DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch = 10 ft on 11x17
Date:	01-03-2014

Project Number:
 021322

Title:
 PRODUCT PIPING

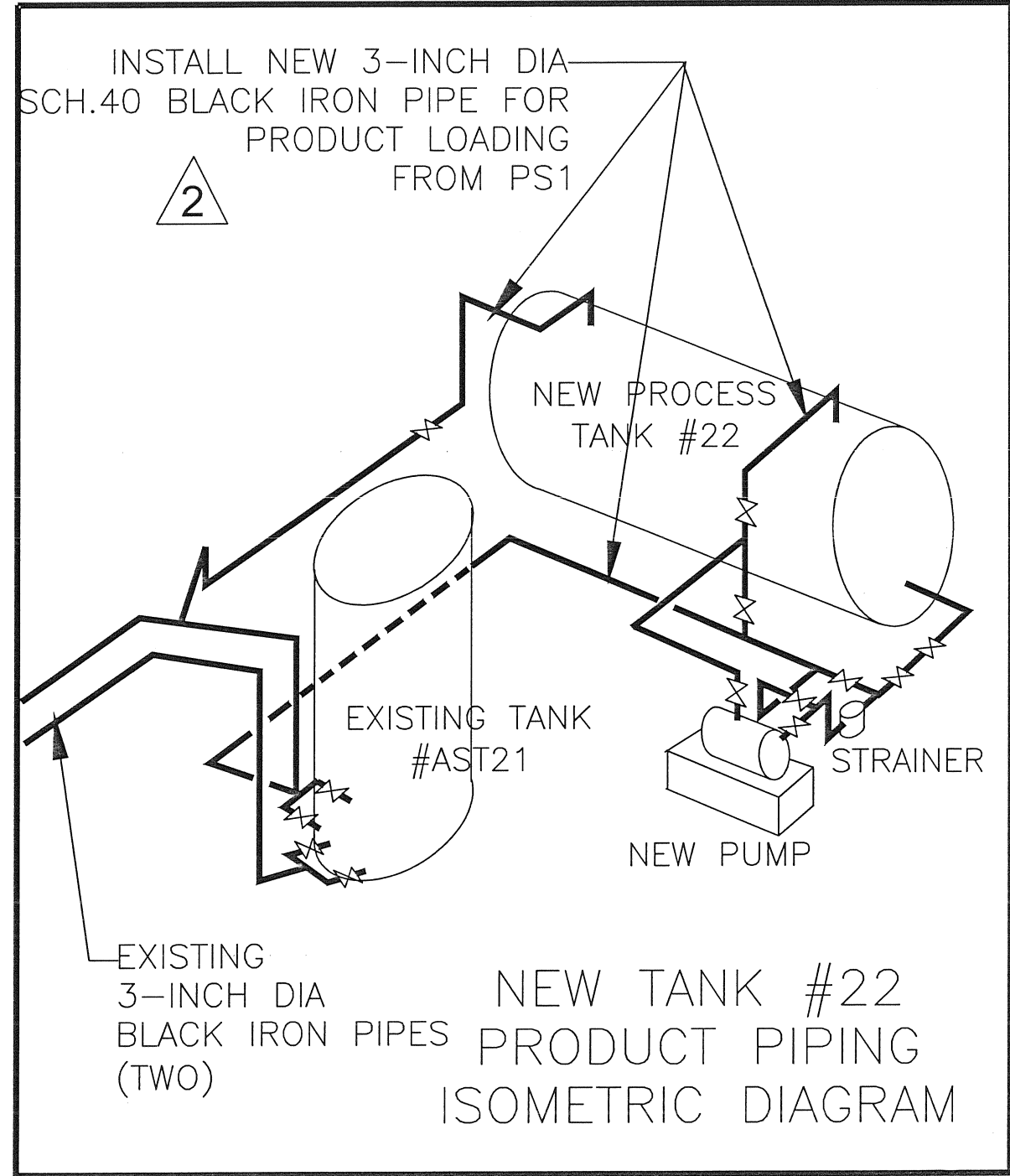
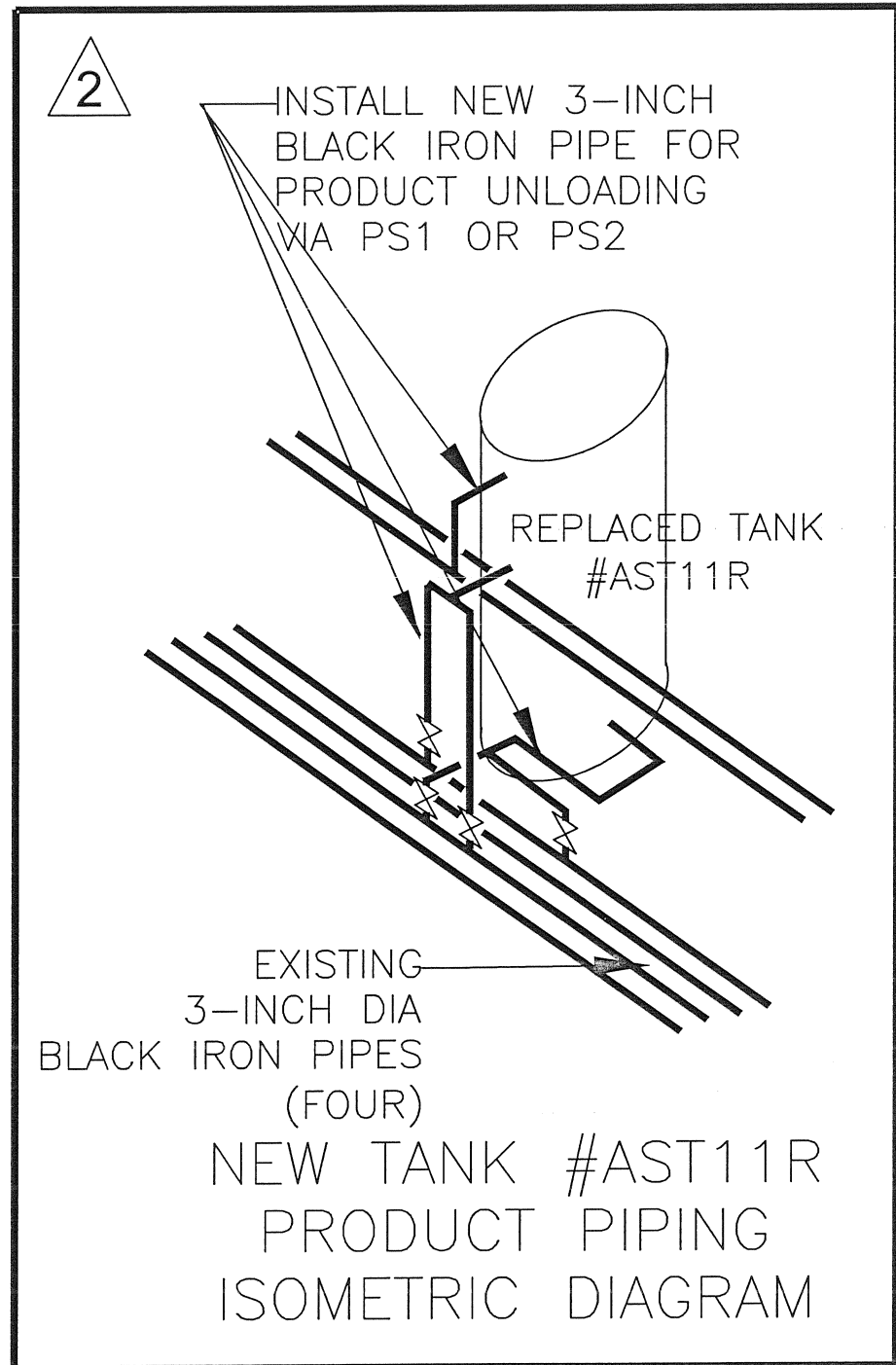
Sheet Number:
 FIGURE 11A

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E PRODUCT PIPING DETAIL,
 FIG. 11 SCALE: 1" = 10'

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 TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
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Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch = 10 ft on 11x17
Date:	01-03-2014

Project Number:
 021322

Title:
 PRODUCT PIPING

Sheet Number:

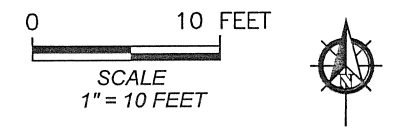
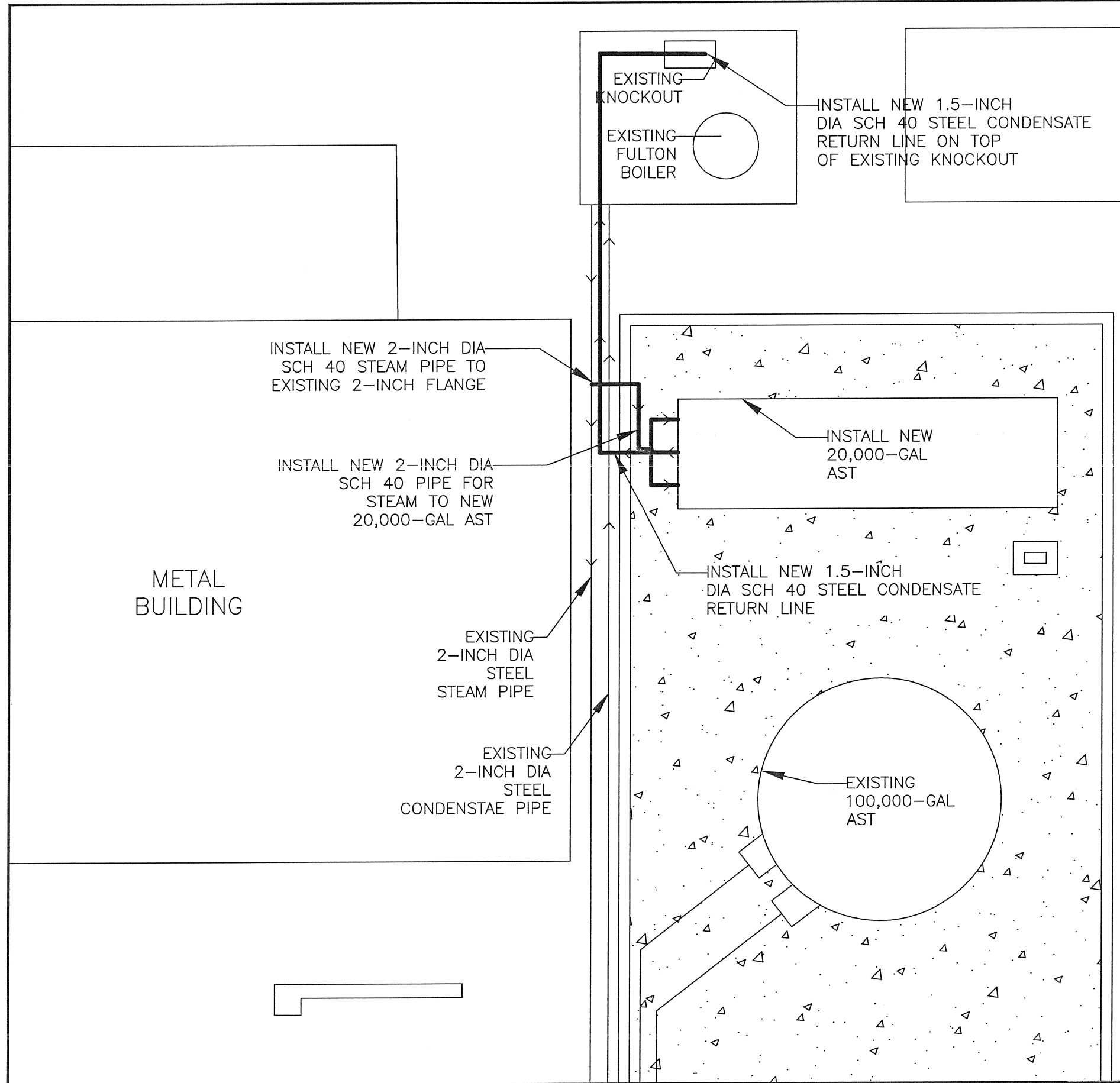
FIGURE
 11B

E PRODUCT PIPING DETAIL;
 FIG 11 SCALE: 1" = 10'

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 FLORIDA LICENSE NO. 28376

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NOT UTILITY EASMENT

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 DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	1 inch = 10 feet on 11x17
Date:	01-03-2014

Project Number:
 021322

Title:
 STEAM PIPING INSTALL PLAN

Sheet Number:
 FIGURE 12

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT

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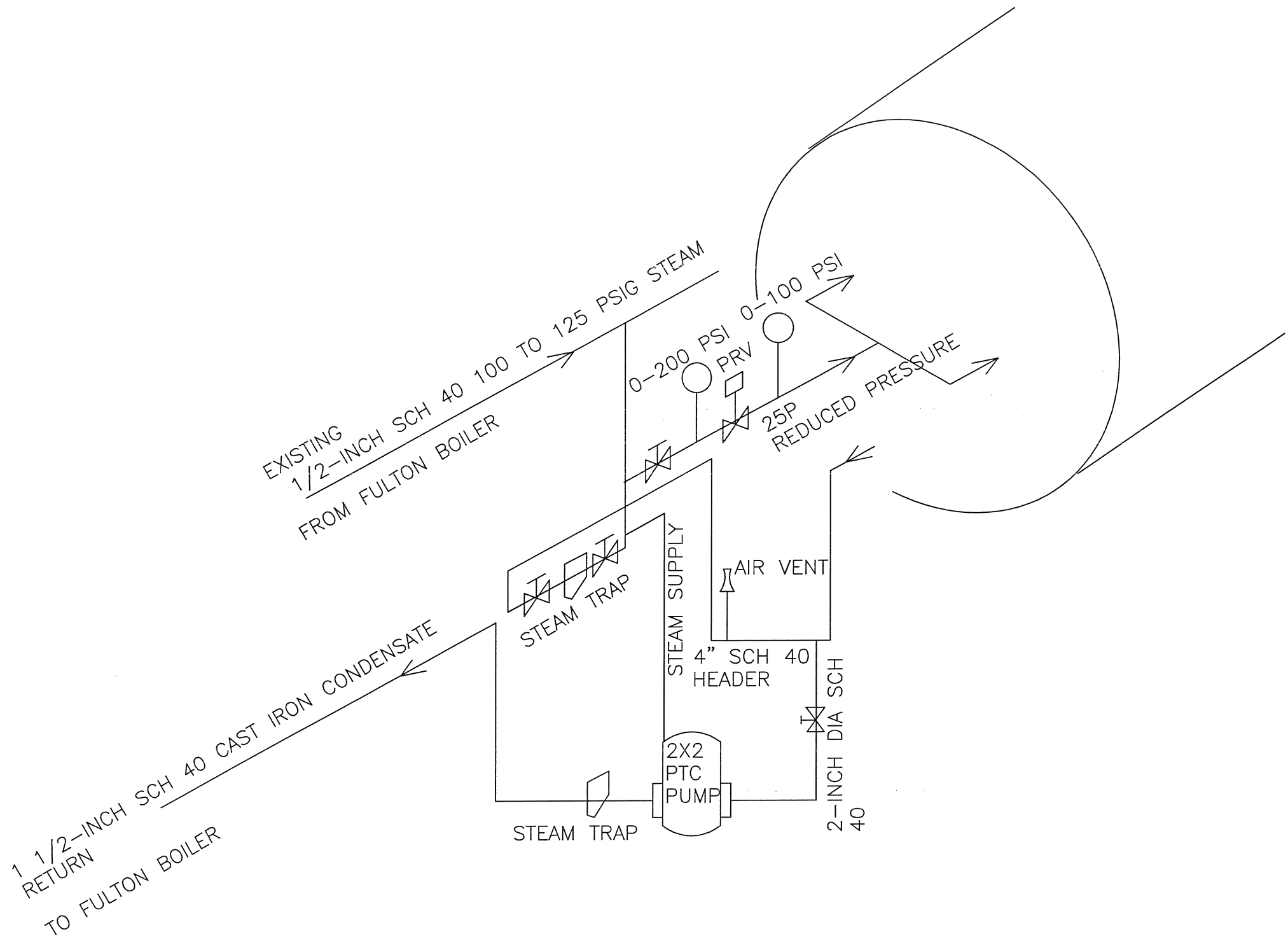
Client:
 TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
 3670 SW 47th AVENUE
 DAVIE, FL 33314

Engineer:	SLB
Drawn By:	SLB
Checked By:	N.L.
Scale:	NTS
Date:	01-03-2014

Project Number:
 021322

Title:
 STEAM PIPING SCHEMATIC

Sheet Number:
 FIGURE 13

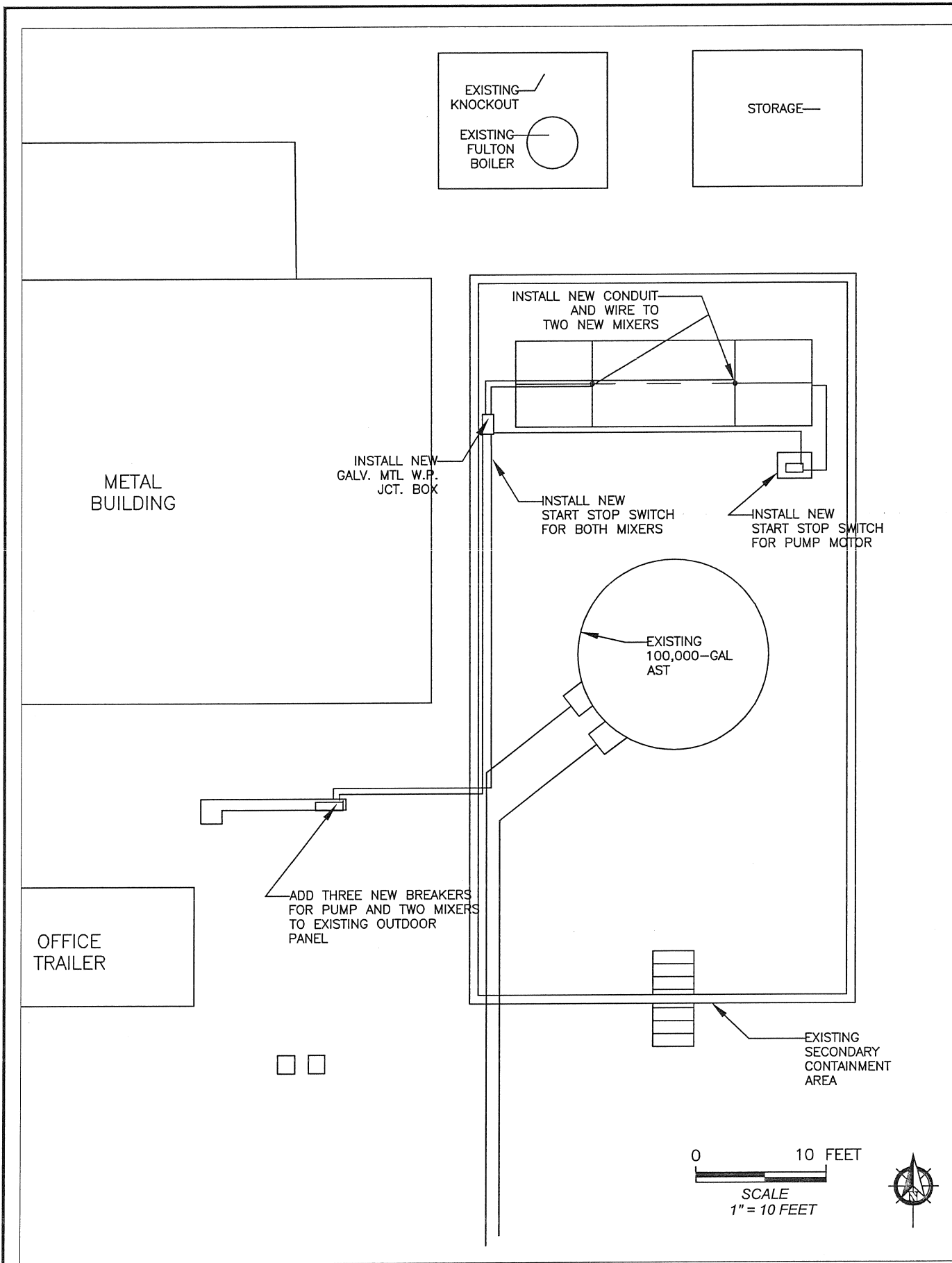


NOTE: ALL PIPING THREADED SCH 40 CAST IRON UNLESS OTHERWISE NOTED

04042014

IRVING E. ABCUG, P.E.
 FLORIDA LICENSE NO. 28376

NOTE: ALL INSPECTIONS MUST BE CONDUCTED BY THE TOWN OF DAVIE BUILDING DEPARTMENT



PROPOSED SCOPE OF WORK (ELECTRICAL)

1. INSTALL NEW BREAKERS IN EXISTING PANEL
2. RUN ONE 3/4" CONDUIT TO NEW STOP SWITCH FOR PUMP MOTOR
3. RUN ONE 3/4" CONDUIT TO NEW STOP SWITCH FOR MIXERS

NOTE: ALL ELECTRICAL EQUIPMENT INSTALLED SHALL BE LISTED AND LABELLED BY APPROVED TESTING LABORATORY AND INSTALLED SUBJECT TO F.B.C. AND N.E.C.

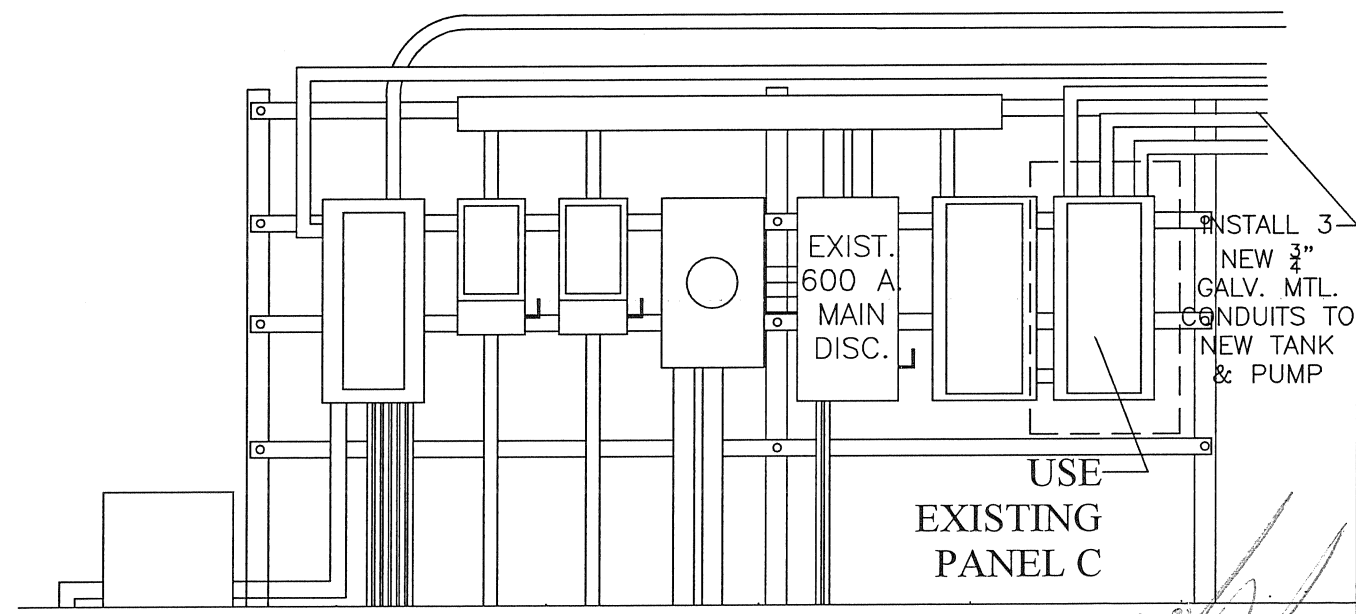
EXISTING PANEL C DETAIL:

MAX. CAPACITY: 225 AMPS
208Y/120 V 3 PHASE/4 WIRE

NOTE: CURRENTLY, PANEL 'C' IS NOT IN USE (NO LOADS)

	WIRE	BREAKER
ONE 10 HP PUMP FLA 30.8	8	40
ONE 2 HP MIXER FLA 7.5	10	20
ONE 2 HP MIXER FLA 7.5	10	20

TOTAL CALCULATED LOAD = 45.8 AMPS



EXISTING RISER DIAGRAM

IRVING E. ABCUG, P.E.
FLORIDA LICENSE NO. 28376

Revisions:
3-12-14 - AS BUILTS

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BOARD OF PROFESSIONAL ENGINEERS CA No 7396
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Client: TRIUMVIRATE ENVIRONMENTAL (FLORIDA) INC
3670 SW 47th AVENUE
DAVIE, FL 33314

Engineer: SLB
Drawn By: SLB
Checked By: N.L.
Scale: 1 inch = 10 feet on 11x17
Date: 01-03-2014

Project Number: 021322

Title: ELECTRICAL DETAIL

Sheet Number: FIGURE 14

From: Neil [<mailto:neil@geotech-usa.com>]

Sent: Tuesday, April 08, 2014 10:22 AM

To: Kothur, Bheem

Cc: Shawn Lennon; James F. Green

Subject: Final As-Built Drawings - Triumvirate Environmental, (Florida), Inc., - 3670 Southwest 47 Ave, Davie, Florida (Operating Permit #s 77390-HO-008, 77390-SO-009)

Good Morning Mr. Kothur,

On behalf of Triumvirate Environmental (Florida), Inc., GeoTech wishes to thank you for all your assistance in reviewing and approving the permit modification for the above-mentioned facility. Your efforts is appreciated in making this process a seamless one. GeoTech is also attaching the final "As-Built" drawings in this email. GeoTech will also be mailing you one original signed and sealed copy by our Professional Engineer via US Ground Mail today.

Should you require any additional information, please do not hesitate to call me.

May All Beings Be Happy.

Nilesh "Neil" Lakhiani
Project Manager
GeoTech Environmental, Inc
WoodMont Professional Building
7737 N. University Drive, Ste 206
Tamarac, Florida 33321
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**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment O: Boundary and Topographic Map

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

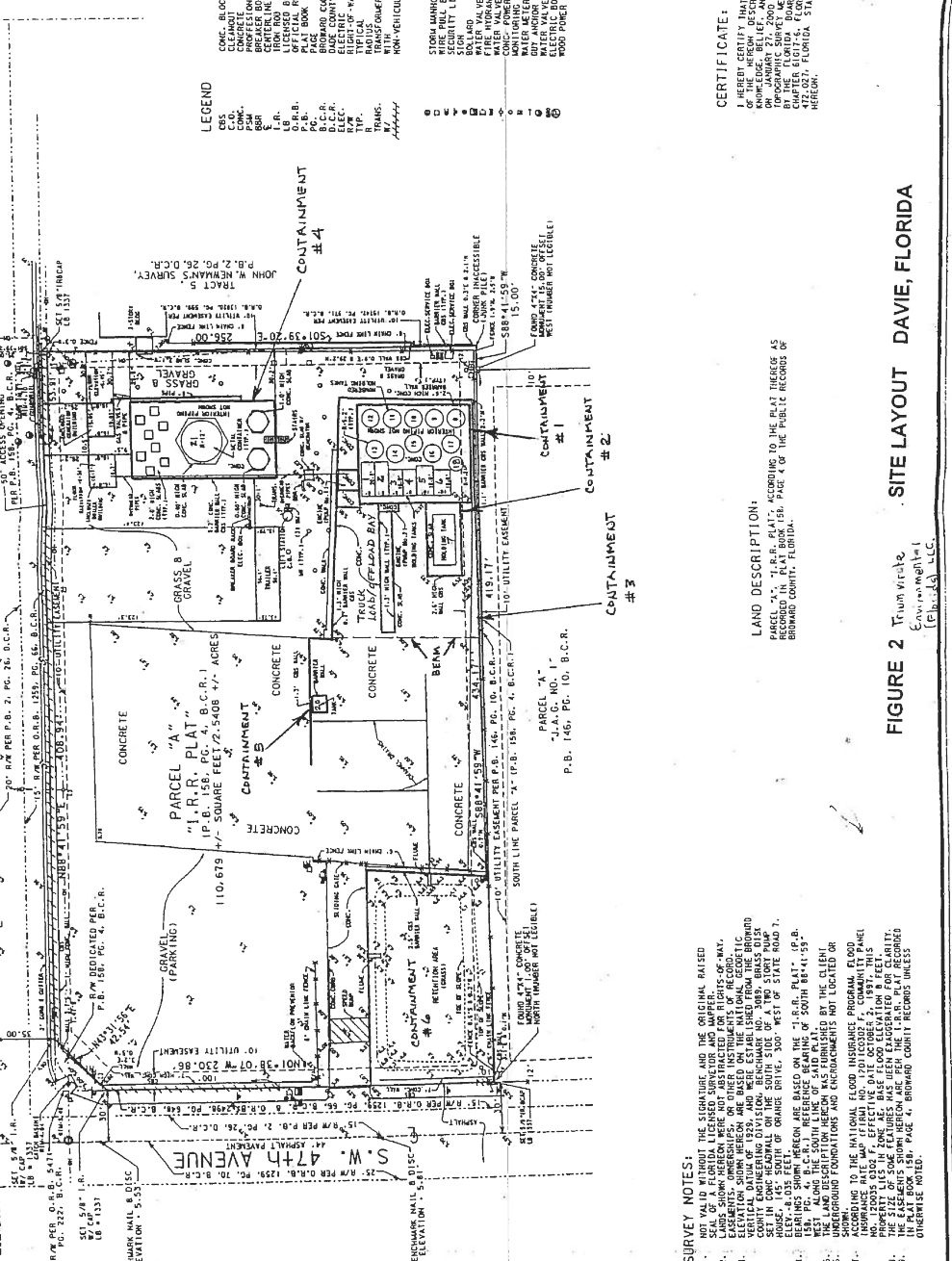
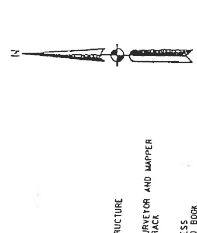
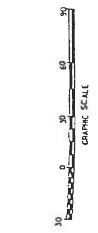
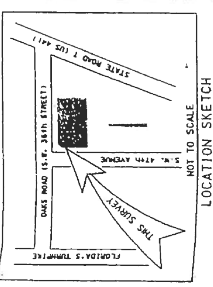
Application Date: September 1, 2022

DATE	REVISIONS

DATE: JANUARY 27, 2000
 SCALE: 1" = 20'
 FIELD BK. 300 BLOOD
 DRAWING BY: ST
 CHECKED BY: BMA

BOUNDARY AND TOPOGRAPHIC SURVEY
 PERMA-TIX
 PARCEL "A", T.R.R. PLAT P.B. 158, PG. 4, B.C.R.,
 BROWARD COUNTY, FLORIDA

SHEET NO. 1
 OF 1 SHEETS
 PROJECT NO. 16339C-



- LEGEND**
- CONG. BLOCK STRUCTURE
 - CLEARING
 - PROFESSIONAL SURVEYOR AND MAPPER
 - CELESTIAL BOUND TRACK
 - IRON ROD MARKERS
 - OFFICIAL RECORD BOOK
 - PLAT BOOK
 - BROWARD COUNTY RECORDS
 - B.C.R.
 - ELECTRIC RECORDS
 - ELECTRIC
 - TYPE OF PA
 - RADIUS
 - NON-VEHICULAR ACCESS LINE
 - WITH
 - STORM MANHOLE (M)
 - SECURITY LIGHT
 - STONE
 - WATER VALVE BOX (WV)
 - WATER VALVE (V)
 - CONC. POWER POLE W/ LIGHT (PP)
 - WATER METER (M)
 - WATER VALVE COVER (WC)
 - ELECTRIC BOX
 - POSS POWER PALE

CERTIFICATE:
 I HEREBY CERTIFY THAT THE ATTACHED BOUNDARY AND TOPOGRAPHIC SURVEY OF THE PROPERTY IS DEFLECTED TO THE BEST OF MY KNOWLEDGE, BELIEF AND FAITHFULNESS ON JANUARY 27, 2000. I FURTHER CERTIFY THAT UNDER NO CIRCUMSTANCES WILL I BE HELD RESPONSIBLE FOR ANY VIOLATION OF THE FLORIDA ADMINISTRATIVE CODE, PRESENT OR FUTURE, OR ANY OTHER APPLICABLE LAW, STATUTE, OR REGULATION, IN CONNECTION WITH THIS SURVEY. I AM A LICENSED PROFESSIONAL SURVEYOR IN THE STATE OF FLORIDA, LICENSE NO. 472,027. FLORIDA STATUTES, SUBJECT TO THE QUALIFICATIONS NOTED HEREON.

KEITH AND SCHNARS, P.A.
 ENGINEERS - PLANNERS - SURVEYORS
 01/27/2000
 FLORIDA REGISTRATION NO. 5146

OAKES ROAD (S.W. 36th STREET)

S.W. 47th AVENUE

PARCEL "A"
 "I.R.R. PLAT"
 P.B. 158, PG. 4, B.C.R. 1
 77,750 SQUARE FEET (2.540 ACRES)

CONTAINMENT #4

CONTAINMENT #1

CONTAINMENT #2

CONTAINMENT #3

LAND DESCRIPTION:
 PARCEL "A", T.R.R. PLAT, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 158, PAGE 4 OF THE PUBLIC RECORDS OF BROWARD COUNTY, FLORIDA.

- SURVEY NOTES:**
- THE SCHEDULE AND THE ORIGINAL RAISED SCALE OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
 - LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR FLOODING.
 - ELEVATION SHOWN HEREON ARE BASED ON THE NATIONAL GEODETIC DATUM OF 1983. THE BENCHMARK IS A BRASS BENCHMARK SET IN CONCRETE ON THE SOUTH SIDE OF A TWO STORY BUILDING. ELEVATION IS 8.035 FEET.
 - BEARINGS SHOWN HEREON WERE OBTAINED BY THE CLIENT. WEST ALONG THE SOUTH LINE OF SAID P.L.A.T. BY THE CLIENT. UNDERGROUND FOUNDATIONS AND ENCROACHMENTS NOT LOCATED OR SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP (FIRM NO. 2201000000). COMMUNITY PANEL NO. 2201000000. BASE FLOOD ELEVATION IS 8 FEET.
 - THE SIZE OF SOME FEATURES WERE TAKEN FROM THE PLAT RECORDED IN PLAT BOOK 158, PAGE 4, BROWARD COUNTY RECORDS UNLESS OTHERWISE NOTED.

FIGURE 2 TOWN VIEWS SITE LAYOUT DAVIE, FLORIDA



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment Q: Permit Related Forms

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022

1. Permit Related Forms

The following forms are included for use with the Used Oil and Material Processing Facility permit:

- a. Oil Inventory Log**
- b. Daily Inspection Log**
- c. TEI Waste Profile (Blank)**
- d. Used Oil Manifest**

Facility Inventory Log – Used Oil Operations (3670 SW 47th Ave)

Date	Inches	Gallons	Balance	Transaction	To/From

Tank #	
---------------	--

Product	
----------------	--

Daily Inspection Form – 3670 SW 47th Ave

1	2	3		4				5			6	7	8	9	10	11	12	
Date & Time	Inspected By	# of Drums		Condition (S or U)				Leaks or Spills			Safety Showers and Eyewash Stations	Emergency Response Kits	Comm Sys.	Fire Ext.	Conting. Plan Posted	Comments or Discrepancies	Resolutions of Discrepancies	
		Haz	Non-Haz	Drums	Cont Area	Fittings	Pumps	Drums	Cont. Area	Unload Area							Date/Action Taken	

Additional Comments:



MPF# _____

MATERIAL PROFILE FORM

A GENERAL INFORMATION

Customer _____ Generator/Facility (if different) _____
 Billing Address _____ EPA ID# _____
 Customer Contact Person _____ Generator Contact Person _____
 Address _____ Pick-up Address (if different) _____
 Address _____ City _____ State _____ Zip _____
 City _____ Note: P.O. Box unacceptable for pick-up address
 State _____ Zip _____ Phone (_____) _____ Fax # _____
 Phone (_____) _____ Purchase Order # _____

B WASTE DESCRIPTION

NAME OF WASTE _____
 PROCESS GENERATING WASTE _____

C GENERAL CHARACTERISTIC (at 70°F unless otherwise specified)

COLOR _____ ODOR _____ NONE MILD STRONG LIQUID _____ % FREE
 STATE Solid Sludge Powder PHASES Single Layer Double Layer Multi-layer if multi, how many? _____

D SPECIAL HANDLING INSTRUCTIONS If special handling techniques are required, i.e. overpacking, specify: _____
 Is a representative sample provided? YES NO
 If no, explain: _____

E RCRA INFORMATION

Is this a USEPA hazardous waste? YES NO
 USEPA hazardous waste codes:

F SHIPPING INFORMATION DOT hazardous material? YES NO

PROPER SHIPPING NAME _____
 HAZARD CLASS _____ ID# _____ R/Q _____
 ANTICIPATED VOLUME _____ Gal. _____ Yds. _____ Lbs.
 _____ Drum(s) _____ Bulk
 _____ One time _____ Mty _____ Yrly _____ Other _____
 Type and size of container: _____
 Weight/container: _____ Gallons: _____

G PHYSICAL PROPERTIES - CHEMICAL COMPOSITION

1 pH <input type="checkbox"/> 2 <input type="checkbox"/> > 12.5 <input type="checkbox"/> 2 - 6 <input type="checkbox"/> ACTUAL <input type="checkbox"/> 6 - 8 <input type="checkbox"/> 8 - 10 <input type="checkbox"/> 10 - 12.5	2 FLASHPOINT <input type="checkbox"/> less than 100 <input type="checkbox"/> 100 - 140 <input type="checkbox"/> 140 - 200 <input type="checkbox"/> > 200 <input type="checkbox"/> ACTUAL	3 BTU's 1000/lb <input type="checkbox"/> < 1 <input type="checkbox"/> > 18 <input type="checkbox"/> 1 - 4 <input type="checkbox"/> ACTUAL <input type="checkbox"/> 4 - 8 <input type="checkbox"/> 8 - 12 <input type="checkbox"/> 12 - 18	4 HALOGENS (%) Chlorine _____ Bromine _____ Fluorine _____ Iodine _____ Total _____	5 OTHER COMPONENTS PCBs _____ (ppm) Others: _____ _____
--	--	---	---	---

6 RCRA METALS TCLP (mg/l) TOTALS (mg/kg or mg/l)

Arsenic (As) _____ Barium (Ba) _____ Cadmium (Cd) _____
 Chromium (Cr) _____ Lead (Pb) _____ Mercury (Hg) _____
 Selenium (Se) _____ Silver (Ag) _____

7 Clean Water Act (CWA) Metals
 (if available) in mg/l
 _____ Copper _____ Zinc
 _____ Nickel

8 ORGANIC TCLP COMPONENTS TCLP (mg/l) TOTALS (mg/kg or mg/l)

Code	TCLP Level (mg/l)	Name	concentration	Code	TCLP Level (mg/l)	Name	concentration
D018	0.5	Benzene	_____	D032	0.13	Hexachlorobenzene	_____
D019	0.5	Carbon Tetrachloride	_____	D033	0.5	Hexachlorobutadiene	_____
D020	0.03	Chlordane	_____	D034	3.0	Hexachloroethane	_____
D021	100.0	Chlorobenzene	_____	D013	0.4	Lindane	_____
D022	5.0	Chloroform	_____	D014	10.0	Methoxychlor	_____
D023	200.0	o - Cresol	_____	D035	200.0	Methyl Ethyl Ketone	_____
D024	200.0	m - Cresol	_____	D036	2.0	Nitrobenzene	_____
D025	200.0	p - Cresol	_____	D037	100.0	Pentachlorophenol	_____
D026	200.0	Cresol (o, m, p)	_____	D038	5.0	Pyridine	_____
D016	10.0	2,4 - D	_____	D039	0.7	Tetrachloroethylene	_____
D027	7.5	1,4 - Dichlorobenzene	_____	D015	0.5	Toxaphene	_____
D028	0.5	1,2 - Dichloroethane	_____	D040	0.5	Trichloroethylene	_____
D029	0.7	1,1 - Dichloroethylene	_____	D041	400.0	2,4,5 - Trichlorophenol	_____
D030	0.13	2,4 - Dinitrotoluene	_____	D042	2.0	2,4,6 - Trichlorophenol	_____
D012	0.02	Endrin	_____	D017	1.0	2,4,5 - TP (Silvex)	_____
D031	0.008	Heptachlor	_____	D043	0.2	Vinyl Chloride	_____

NOTES

Results: _____
 Analyst: _____
 Date: _____

OTHER ORGANIC/INORGANIC COMPONENTS

Name	%
_____	_____
_____	_____
_____	_____

I hereby certify that all the information in this and in the attached documents is complete and accurate, and that all known or suspected hazards have been disclosed. Information provided that is not supported by analytical/technical data is based on "applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used [40 CFR 262.11(c)2]."



TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.
 3701 S.W. 47TH AVENUE, SUITE 109 • DAVIE, FL 33314
 BROWARD (954) 583-3795 FAX (954) 583-8017
 TOLL FREE (800) 959-9543

Manifest Document
No. 214185

Visit Our Website @ www.triumvirate.com

HALOGEN SCREENING
 PASS FAIL

Used Product Shipping Manifest

Truck # Trailer #

1. Generator/Shipper Name		2. EPA Identification No.		3. Generator Phone No.		4. Purchase Order No.			
5. Generator/Shipper Address		6. City		7. State		8. Zip Code			
10. Bill To Name		11. Address		12. City		13. State			
15. Transporter Name TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.		16. Phone Number 954-583-3795		17. EPA Identification Number FLD 981018773		<input type="checkbox"/> COD <input type="checkbox"/> CASH <input type="checkbox"/> CHECK <input type="checkbox"/> VISA <input type="checkbox"/> MASTERCARD <input type="checkbox"/> DIRECT BILL <input type="checkbox"/> CREDIT <input type="checkbox"/>			
18. Transporter Address 3701 S.W. 47 TH AVE., #109		19. City DAVIE		20. State FLORIDA				21. Zip Code 33314	
22. Designated Facility Name TRIUMVIRATE ENVIRONMENTAL SERVICES, INC.		23. Phone Number 954-583-3795		24. EPA Identification Number FLD 981018773					
25. Designated Facility Address 3670 S.W. 47 TH AVENUE		26. City DAVIE		27. State FLORIDA				28. Zip Code 33314	
29. Comments									

30. US DOT Proper Shipping Description			CONTAINERS				CHARGES	
HM		SHIPPING NAME	NO.	TYPE	TOTAL QTY	UNIT WT/VOL	UNIT PRICE	TOTAL PRICE
X	a	NA 1993, Combustible Liquid, N.O.S. Combustible Liquid, PG III (petroleum distillates)						
	b	Non-Hazardous Material (used oil filters)						
	c	Non-Hazardous Material (rags & absorbent material)						
	d	Spent Mercury Lamps for Recycle (used fluorescent bulbs)						
	e	Non-Hazardous Material (oily water)						
	f	Non-Hazardous Material (soils)						
	g	Non-Hazardous Material (sludge)						
	h	Non-Hazardous Material (anti-freeze/coolant)						
	i	USED OIL (NON-DOT REGULATED)						
X	j	NA 1993, Diesel Fuel, PG III						
	k	Transportation Surcharge						
	l	Recovery Fee						
	m							

Important: Payment due upon receipt of invoice. A service charge of 1½% per month (18% annum) will be charged on balances over 30 days past due. All past due accounts subject to a minimum service charge of \$1.50 per month. In the event it shall become necessary to the herein above described sums, or any part thereof, the purchaser agrees to pay all costs thereof, including reasonable attorney's fees.

Total Due

31. Special Handling Instructions and additional information IN CASE OF EMERGENCY CALL 800-966-9282		Handling Codes	
32. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.			
Printed/Typed Name		Signature	
		Date	
33. Transporter Acknowledgement of Receipt of Materials:			
Printed/Typed Name		Signature	
		Date	
34. Discrepancy Indication Space for Designated Facility			
35. Designated Facility Owner/Operator Acknowledgement of Receipt of Materials			
Printed/Typed Name		Signature	
		Date	



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment R: Emergency Action and Fire Plan

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Application Date: September 1, 2022



Emergency Action and Fire Prevention Plan

Document History:

Date	Author	Description
10/7/14	Kyle Lopic	Document creation
10/20/2020	Randy Troy	Update to Appendix A and B

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Appendix A: EAP/FPP Contact List

Appendix B: External Responder List

1.0 Purpose

The combined Emergency Action and Fire Prevention Plan has been developed to ensure that Triumvirate Environmental, (Florida) Inc. (TEI) employees and visitors will be safe in the event of a fire or other emergency.

2.0 Scope

This document details the employee and employer responsibilities using the Incident Command System (ICS) and the actions that are to be taken during workplace emergencies. It includes, but is not limited to, responses to fires, chemical spills, bomb threats and weather-related disasters. This written plan is written to comply with 29 CFR 1910.38 Emergency Action Plan Standard and 29 CFR 1910.39 Fire Prevention Plan Standard and is available for review by employees, supervisors, and managers.

3.0 Responsibilities

3.1 Incident Commander (IC)/ Environmental, Transportation, Safety, and Compliance Specialist (ETSC)

- 3.1.1 Developing, maintaining, and executing the plan,
- 3.1.2 Conducting evacuation drills,
- 3.1.3 Training employees to understand their role under the ICS,
- 3.1.4 Ensuring Emergency Evacuation Maps are posted and updated as necessary.

3.2 Evacuation Coordinator/ Alternate Evacuation Coordinator

- 3.2.1 Checking assigned areas to ensure employees leave the building during an evacuation,
- 3.2.2 Providing a head count of employees in their area to the IC once employees have assembled at the Rally Point.

3.3 Employees

- 3.3.1 Understanding their role in the EAP and FPP,
- 3.3.2 Following directions given to them by those having incident command responsibilities.

4.0 Reporting Fires and Emergencies

4.1 Fires and other emergencies will be reported as follows:

- 4.1.1 If immediate outside assistance is required;
- 4.1.2 Dialing 911 (24 hours a day),
- 4.1.3 Emergencies that do not require immediate outside assistance;
- 4.1.4 Incident Commander/ ETSC (Standard work hours, 7 AM to 5 PM)

5.0 Plan Assignments

Triumvirate personnel who have specific assignments are listed in Appendix A along with their contact information.

6.0 Evacuation Routes and Headcount Procedures

6.1 Evacuation Routes

Evacuation route maps are posted throughout the building. In the event of an evacuation, all employees are to proceed to the nearest available exit and leave the building following the primary or secondary evacuation route from their current location. No employee is permitted to re-enter the building until advised by the Incident Commander.

6.2 Alarm System Requirements

Employees are notified of emergencies in two ways. Emergencies which require an evacuation of the building (fire, etc.) will be announced through the use of the fire alarm system. When activated, a continual loud siren will be heard. The second method of emergency notification is a manual evacuation and will be facilitated by the Incident Commander or their designee. The manual evacuation may be activated through the all page phone system. The all page can be used by dialing **2421** to speak into every phone in the office. This system will be used for all emergencies which do not require the buildings to be evacuated, such as inclement weather/shelter in place or medical emergencies.

6.3 Rally Points and Headcount Procedures

For all evacuation events, employees will proceed to their assigned rally point immediately upon exiting the building. The rally point for the building is located in the parking area along SW 47th Street. If safe to do so, the rally point may be moved to the parking lot. This will be facilitated by the Incident Commander or ETSC. The building will remain evacuated until advised by the Incident Commander, the Fire Department or another responsible agency.

Once an evacuation has been completed and all employees are at the rally point, an employee who has been trained under this plan will conduct a headcount to account for all employees who were in the building. In addition to the Visitor's Log, which will be taken out to the rally point by one of the trained employees. Department heads or their designated trained representatives should check rooms and other enclosed spaces in their immediate area for employees who may be trapped or otherwise unable to evacuate. Employees that need assistance due to a disability will be assigned a "buddy" during the evacuation.

The team member performing the headcount will use the Visitor's Log and the information provided by the department heads to develop the list of employees who were in the building at the time of the evacuation. A headcount will be conducted and reconciled with the employee list. If there is a discrepancy between the two lists, emergency responders will be notified that a search will need to be initiated. The VP and Incident Commander will be continually updated on these events.

7.0 Training

7.1 Training for Management and Employees in the ICS

Managers and employees who have been assigned responsibilities under the EAP/FPP will receive annual training on the Incident Command System (ICS) and plan structure.

7.2 Training for Other Employees

Employees who do not have specific roles in the ICS will receive initial training on Triumvirate's EAP/FPP during New Employee Orientation training. Training will include the use of floor plans and facility maps to identify the emergency evacuation routes that are included in the EAP. Employees will participate in an annual evacuation drill to ensure that everyone is competent to perform their role under the EAP/FPP. Refresher training is conducted whenever an employee's responsibilities change under the plan.

8.0 Emergency Procedures

8.1 Medical Emergencies

Field operations employees have been trained in first aid/CPR, the Heimlich maneuver, and Bloodborne Pathogens. These employees work in various departments throughout the company and can be called upon in a medical emergency. First aid stations, stocked with appropriate supplies such as bandages and non-prescription pharmaceutical products, are located throughout the building. There is one located in the kitchen and the other is in the back TSR room by the exit. Medical Emergencies beyond simple first aid will require the injured employee to be transported to the hospital by ambulance.

8.2 Criminal Acts, Suspicious Acts, and Employee Terminations

Criminal or suspicious acts, which include unauthorized personnel on Triumvirate property, theft, workplace threats and violence, must be reported immediately to the Compliance Department or branch ETSC. If there is immediate danger associated with the situation, dial 911 to contact the Davie Police Department. During employee termination procedures, the TEI representatives must be cognizant of any signs of agitation on the part of the terminated employee. When the termination procedures are completed, the employee must be escorted out of the

building and kept under observation until they have vacated both the 3701 and 3760 premises.

8.3 Bomb Threats

If a bomb threat is called in to the main switchboard, the receptionist on duty will attempt to keep the caller on the line and obtain as much information concerning the threat as possible. The information that the receptionist should attempt to obtain includes: the caller's name, the type and location of the bomb, when the bomb will detonate and the reason for the threat. The receptionist should stay on the line until the caller hangs up. Once the call is terminated, the receptionist should report the call to the COO, Vice President of Operations, the Director of Compliance, and Branch ETSC. The Director of Compliance will then report the bomb threat to the Davie Police Department and determine if a facility evacuation is necessary. Training will be provided to all Reception Personnel who may be on the switchboard.

8.4 Utility Interruption

In the event of an electrical power interruption, the emergency lights will turn on in key areas of the building, as well as the main exits. Either the branch manager or ETSC will place a call to the electric company to identify the source and timeline of the power outage. Depending of the information received from the electric company, the branch manager or ETSC will make a decision on whether the facility will be evacuated or whether all employees can safely remain in the facility until the power is restored.

8.5 Inclement Weather/Shelter in Place Instructions

If an inclement weather announcement, e.g. storm with high winds, hurricane, tropical storm or tornado, requires employees to be sheltered in place, an announcement will be made by members of the Emergency Action Plan Team and a branch email will be sent out. All employees will proceed to the designated shelter in place locations, which are the back corner TSR offices at Building 3701. This area is designated as the shelter in place locations on the emergency evacuation maps.

8.6 Fire

8.6.1 Reporting and Evacuation Procedures

An employee who discovers a fire must immediately contact the Davie Fire Department by activating the fire alarm system or dialing 911 to report the fire. If the employee has been trained in the use of fire extinguishers, they can attempt to extinguish the fire if it is an incipient stage fire (1 cubic foot or less in size or the size of an office wastebasket). After the fire has been reported, all employees will evacuate the building following the evacuation procedures detailed in Section 5.0 of this Plan. If the fire is called in using 911 and the fire alarm system has not, or cannot be

activated, the person reporting the fire must contact the branch manager or ETSC to activate the Emergency Action Plan Team. All Fires must be reported to the Incident Commander and ETSC.

8.6.2 Potential Fire Hazards

In building 3701 the main potential for a fire would be from combustible material such as paper products and cardboard boxes. This material is stored throughout the building, and material that is to be recycled is located in the warehouse section of the building.

8.6.3 Fire Prevention

Offices are to be kept neat at all times in order to prevent the accumulation of combustible materials such as paper and cardboard boxes on desks or the floor. All entrances and aisles must be kept free of slip and trip hazards in order to ensure that evacuation routes are kept clear.

8.6.4 Chemical Spills

Chemical spills may occur on the 3760 property when chemical containers are moved within the trailers or transported onto the site. Chemical spills, regardless of size, must be reported immediately to the Compliance Department to determine the appropriate response actions.

8.6.5 Gas Leaks

If the odor of natural gas is detected, the branch ETSC must be notified immediately. If a gas leak is suspected, the appropriate utility will be contacted and a decision on evacuation will be determined.

Appendix A
EAP/FPP Contact List

Name	Title	Cell #	Alt. Tel. #
Shawn Lennon	Incident Commander/ General Manager	954-296-3873	954-583-3795
Ryan Mohansingh	Incident Commander/ Operations Manager	954-607-3204	954-583-3795
Kevin Coulon	Incident Commander/General Manager, SE Region	781-254-5467	407-859-4441
Randy Troy	Incident Commander/ETSC	260-416-4981	407-859-4441
Cindy Sheeler	Evacuation Coordinator /TSR	954-583-3795	954-817-2789

Appendix B
External Responder List

Agency	Telephone #
All Emergency Calls	911
Davie Police Dept.	954-693-8200
Davie Fire Dept.	954-797-1213
Broward County Sheriff	954-831-8901
Plantation General Hospital (primary)	954-587-5010
Broward General Hospital (secondary)	954-355-4400
Poison Control Center	800-222-1222
EPA Emergency Response Team	800-241-1754
Florida Division of Emergency Management	800-320-0519
National Response Center	800-424-8802
Chemtrec	800-424-9300
Center for Disease Control	404-639-3311
ADT Alarm Company	877 338-2661
Property Manager / Montalbano Commercial Realty, Inc.	954-321-6464



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment S: Compliance History

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Initial Application Date: September 1, 2022

Revision #1: November 14, 2022

1. Compliance History

The site's compliance history showing all inspections and enforcement actions for the past five (5) years is shown in **Attachment S**.

There have been no reported releases or spills by the applicant within the past five (5) years.

5-Year Compliance History

Site	Inspection Date	Agency	Resulting Action	Abbreviated Details	Corrective Action	Penalty (\$)	Status
Davie - Facility	7/17/2018	US Coast Guard - Port of Miami	None	No issues were noted.	None required.	None	Closed
Davie - Facility	2/11/2019	Florida Dept of Health (DOH)	None	No issues were noted.	None required.	None	Closed
Davie - Facility	2/20/2019	Florida Department of Environmental Protection (FDEP)	None	No issues were noted.	None required.	None	Closed
Davie - Facility	6/24/2019	US Coast Guard	None	No issues were noted.	None required.	None	Closed
Davie - Facility	9/11/2019	Florida Department of Environmental Protection (FDEP)	None	No issues were noted.	None required.	None	Closed
Davie - Facility	10/23/2019	Broward County Env Protection and Growth Mgmt Dept	Notice of Violation	Inspector from the Broward County Environment and Consumer Protection Division inspected the site. He noted we did not have an API-653 inspection record immediately available for the storage tanks.	A contractor had already been contacted to conduct storage tank inspections. They were in the process of being approved in TEI's PO system when the inspection occurred. The tank inspections took place in December 2019 and all tanks were in compliance.	None	Closed
Davie - Facility	10/23/2019	US DOT	None	No violations were issued but inspector recommended implementing three improvements related to drum closures and overpack labeling.	Items recommended by the inspector were evaluated and incorporated into practice.	None	Closed
Davie - Facility	12/16/2020	Town of Davie Fire Rescue Department	None	No issues were noted.	None required.	None	Closed

Site	Inspection Date	Agency	Resulting Action	Abbreviated Details	Corrective Action	Penalty (\$)	Status
Davie - Facility	3/18/2021	FDEP	None	FDEP inspected the facility on March 18, 2021. Due to COVID restrictions, documents were not reviewed onsite and were sent to the inspector via email. On April 13, 2021 a Compliance Assistance Offer (CAO) letter was received stating one item was potentially out of compliance. The item noted was that a non-haz Trace Chemo profile listed arsenic trioxide, which should have made the waste a hazardous waste due to the P-code. The issue was investigated and it was determined the arsenic trioxide was included by error on the profile. A response letter was sent to FDEP on April 23, 2021. A Return to Compliance letter was sent to TEI on April 26, 2021.	Triumvirate updated the profile in question and did retraining. A response letter was sent to FDEP on April 23, 2021. A Return to Compliance letter was sent to TEI on April 26, 2021.	None	Closed
Davie - Facility	10/20/2022	Florida Department of Environmental Protection	None	FDEP Inspection of 10-Day Facility. Official report from FDEP is forthcoming.	None at this time	None	Open



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment T: Landowner Approval

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Application Date: September 1, 2022

CONFIDENTIAL

PROPRIETARY BUSINESS INFORMATION

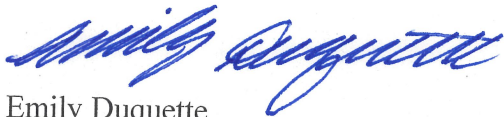
February 5, 2020

Re: 3670 SW 47th Avenue, Davie, FL 33314 (the "Premises")

To Whom It May Concern:

Pursuant to 62-701.710(2), F.A.C. and 62-701.320(7)(g), F.A.C., please be advised that TEI Davie, LLC, a Florida limited liability company and owner of the Premises, hereby authorizes Triumvirate Environmental Services, Inc., a Florida corporation, to use the Premises for a waste processing facility

Sincerely,



Emily Duquette
Director, Legal & Assistant Secretary
TEI Davie, LLC



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment U: Site Photographs

FDEP Permit No. 77390-011-HO; 77390-012-SO

Triumvirate Environmental Services, Inc.

3670 SW 47th Avenue

Davie, Florida 33314

EPA ID No. FLD981018773

Application Date: September 1, 2022



Photo 1: Facility Entrance at SW 47th Ave



Photo 2: Stormwater Collection Area (View from the West)



Photo 3: Truck Parking Area near Warehouse Transfer Station/Storage Area (View from the Southeast)



Photo 4: Facility Office (left), Tanker Unloading Area (center), Roll-off Area (right) (View from the West)



Photo 5: Tanker Unloading Area with Secondary Containment #3 (View from the West)



Photo 6: Non-Hazardous Waste Roll-Off Area with Secondary Containment #3 (View from the West)



Photo 7: Vertical Aboveground Storage Tanks with Secondary Containment #1 (View from the North)



Photo 8: Vertical Aboveground Storage Tanks with Secondary Containment #1 (View from the Northeast)



Photo 9: Horizontal Aboveground Storage Tanks in Secondary Containment #1 (View from the North)



Photo 10: Tank 21 and Tank 22 in Secondary Containment #4 (View from the South)



Photo 11: Tank 21/22 (foreground) and Tank 1-18 (background) (View from the North)



Photo 12: Tank 7 in Secondary Containment #2 (View from the West)



**Used Oil and Material Processing Facility
Permit Renewal Application**

Attachment V: Tank Inspection Records

FDEP Permit No. 77390-011-HO; 77390-012-SO

**Triumvirate Environmental Services, Inc.
3670 SW 47th Avenue
Davie, Florida 33314**

EPA ID No. FLD981018773

Not included in Initial Submission on September 1, 2022

Revision #1: November 14, 2022

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T1



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



MISSION STATEMENT

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**TRIUMVIRATE
DAVIE, FL
TANK #T1**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The visual inspection found an excessive amount of debris (pine needles) that has accumulated underneath the tank. This area should be cleaned and free of any debris that may be a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank sits directly on the concrete. The visual inspection found an excessive amount of debris (pine needles) that has accumulated in the area where the concrete and shell make contact.

SUPPORT SYSTEM - The tank sits directly on the concrete foundation. There are angle supports that are bolted to the concrete to prevent the tank from moving. The visual inspection found no conditions of concern.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external lap welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The tank sits directly on the concrete foundation. The visual inspection found that in the area where the tank meets the concrete excessive debris (pine needles) has accumulated. This may cause moisture to become trapped and may cause corrosion activity. Due to the position of the tank and being in service, it is not possible to determine if corrosion is present in the lower area of the shell. This will need to be evaluated from the internal side of the shell when the tank is out of service. The visual inspection also found debris and vegetation trapped between

the shell of this tank and the adjacent tank (T2). This is also an area where moisture may become trapped and cause corrosion activity. This excessive accumulation of debris is also a potential fire hazard which is a potential threat to the tank system. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank has a common ladder and platform that is shared with the adjacent tanks. The visual inspection found paint failure on the access system. No other conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T1**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be cleaned (pressure washed) and free of debris to prevent a potential fire hazard and a means for trapping moisture which will cause corrosion activity on the lower shell.
2. Clean the debris that has accumulated between the shell of this tank and the adjacent tank (T2).
3. At the next available opportunity, the tank should be taken out of service to perform an evaluation on the internal shell, mainly the lower shell, where contact is made with the concrete foundation. This inspection may be used to perform a similar service evaluation on the adjacent tanks that have the same concerns.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T1	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	8.00 feet
Current Product :	USED OIL	Length :	21.30 feet
Code :	UNKNOWN	Design Capacity :	8,000 gal
Product Specific Grav. :	0.960		200 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	4	NOZZLE W/BF	TOP	0.7	8.00							
B	3	INLET	TOP	2.8	8.00	WELDED						
C	2	VENT	TOP	4.0	8.00	0.280						
D	3	CUTOFF NOZZLE	TOP	10.0	8.00	WELDED						
E	24	MANWAY	TOP	11.4	8.00		0.234				0.311	
F	4	COUPLING W/PLUG	TOP	18.4	8.00	0.280						
G	4	HIGH LEVEL ALARM	TOP	20.4	8.00	0.310						
H	3	OUTLET	HEAD 1	3.0	1.50	0.223	0.223	0.226	0.228		0.910	
I	2	VALVE W/BF	HEAD 1	4.0	1.00							
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T1
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: _____ 12/04/2019

	Point No.====> Readings in thousandths of an inch																																			
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
Head 1	MAX = 253 MIN = 248 AVG = 250																																			
	249	251	250	251	252	253	252	252	248	248	249																									
Head 2	MAX = 253 MIN = 246 AVG = 250																																			
	246	247	250	249	250	250	251	250	248	253	252																									

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T1
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: _____ 12/04/2019

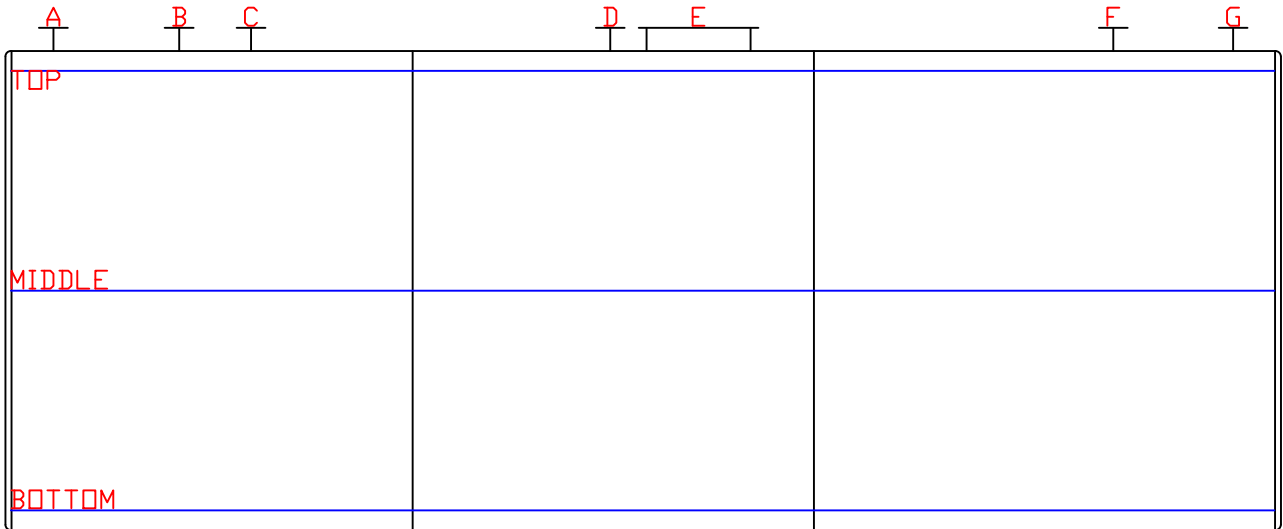
	Point No.====> Readings in thousandths of an inch																																						
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
	MAX = 278 MIN = 252 AVG = 265																																						
Top	273	272	271	274	269	263	254	252	258	255	255	255	269	269	271	269	263	265	262	261	264	263																	
Middle	271	264	264	264	276	272	273	276	278	277	277	269	268	264	259	259	258	256	264	264	261	269																	
Bottom	260	265	271	278	276	276	273	270	271	259	260	259	261	258	258	263	262	264	258	252	264	263																	

DRAWINGS



MISSION STATEMENT

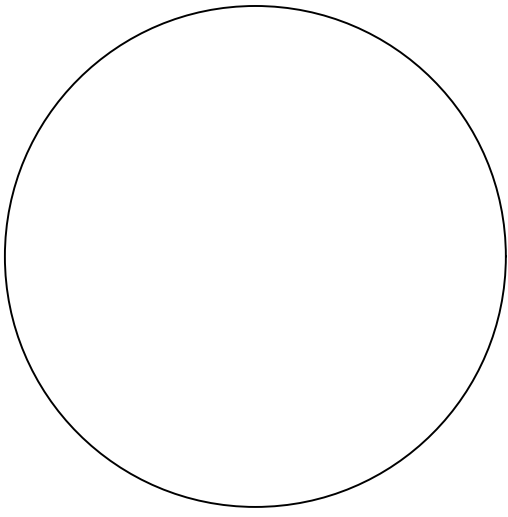
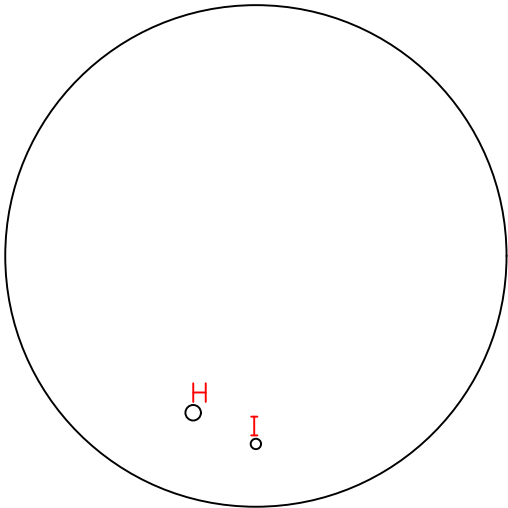
"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."



TRIMVIRATE
 DAVIE, FL
 TANK #1
 VESSEL LAYOUT

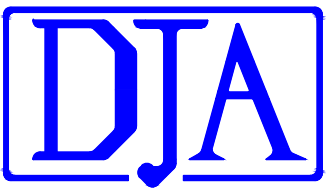
HEAD 1

HEAD 2



LEGEND
 - SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
 - INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

DRAWN BY F. BOYD
 DRAWN USING AUTO CAD LT
 VERSION 2002



INSPECTION SERVICES

TANK LAYOUT

PHOTOS



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."



HEAD 1



NOZZLES



NOZZLES



DEBRIS BETWEEN T1 &T2



PAINT FAILURE



EXCESSIVE DEBRIS UNDER TANK



DENT ON SHELL



COMMON ACCESS WAY

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T1</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank sits directly on the concrete foundation. Tank has an angle beam bolted to the foundation to prevent movement of the tank.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	There are minor dents on the shell.
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area has excessive amount of debris (pine needles) under the tank.

Debris is trapped between T1 and T2 shell.

TEMPLATES

Templates will be available upon request.



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D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T2



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

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**TRIUMVIRATE
DAVIE, FL
TANK #T2**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The visual inspection found an excessive amount of debris (pine needles) that has accumulated underneath the tank. This area should be cleaned and free of any debris that may be a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank sits directly on the concrete. The visual inspection found an excessive amount of debris (pine needles) that has accumulated in the area where the concrete and shell make contact.

SUPPORT SYSTEM - The tank sits directly on the concrete foundation. There are angle supports that are bolted to the concrete to prevent the tank from moving. The visual inspection found no conditions of concern.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external butt welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The tank sits directly on the concrete foundation. The visual inspection found that in the area where the tank meets the concrete, excessive debris (pine needles) has accumulated. This may cause moisture to become trapped and may cause corrosion activity. Due to the position of the tank and being in service, it is not possible to determine if corrosion is present in the lower area of the shell. This will need to be evaluated from the internal side of the shell when the tank is out of service. The visual inspection also found debris and vegetation trapped between

the shell of this tank and the adjacent tank (T1). This is also an area where moisture may become trapped and cause corrosion activity. This excessive accumulation of debris is also a potential fire hazard which is a potential threat to the tank system. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank has a common ladder and platform that is shared with the adjacent tanks. The visual inspection found paint failure on the access system. No other conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T2**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be cleaned (pressure washed) and free of debris to prevent a potential fire hazard and a means for trapping moisture which will cause corrosion activity on the lower shell.
2. Clean the debris that has accumulated between the shell of this tank and the adjacent tank (T1).
3. At the next available opportunity, the tank should be taken out of service to perform an evaluation on the internal shell, mainly the lower shell, where contact is made with the concrete foundation. This inspection may be used to perform a similar service evaluation on the adjacent tanks that have the same concerns.

SPREADSHEETS



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T2	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	BUTT WELDED	Diameter :	8.00 feet
Current Product :	USED OIL	Length :	21.30 feet
Code :	UNKNOWN	Design Capacity :	8,000 gal
Product Specific Grav. :	0.960		200 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T2
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	4	COUPLING W/PLUG	TOP	0.6	8.00	0.350						
B	3	INLET	TOP	1.0	8.00	WELDED						
C	3	OUTLET	TOP	2.6	8.00	WELDED						
D	2	4"X2" VENT	TOP	3.9	8.00	0.350						
E	24	MANWAY	TOP	11.4	8.00	0.258	0.256	0.258	0.259			
F	6	GAUGE HATCH	TOP	18.4	8.00							
G	4	COUPLING W/PLUG	TOP	20.4	8.00	0.350						
H	3	OUTLET	HEAD 1	3.0	1.50	0.225	0.226	0.224	0.227		0.909	
I	1	SAMPLE	HEAD 1	4.0	1.00							
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T2
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Head 1	MAX = 235 MIN = 232 AVG = 233																																				
	234	234	233	232	233	235	232	235	233	232	233																										
Head 2	MAX = 238 MIN = 232 AVG = 236																																				
	232	232	235	236	236	238	238	238	236	236																											

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T2
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																					
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
	MAX = 249 MIN = 235 AVG = 244																																					
Side 1	249	247	246	246	247	247	246	242	242	243	246	248	246	246	247	246	249	247	245	247	245	245																
Side 2	243	244	243	244	246	245	248	246	246	242	242	242	242	245	246	240	240	241	242	240	237	235																
Side 3															241	241	242	240	244	242	239	240																

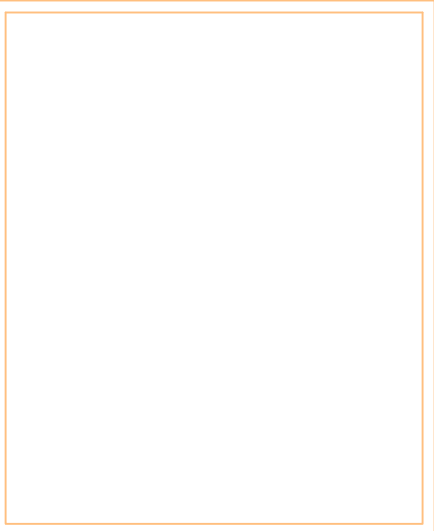
DRAWINGS



MISSION STATEMENT

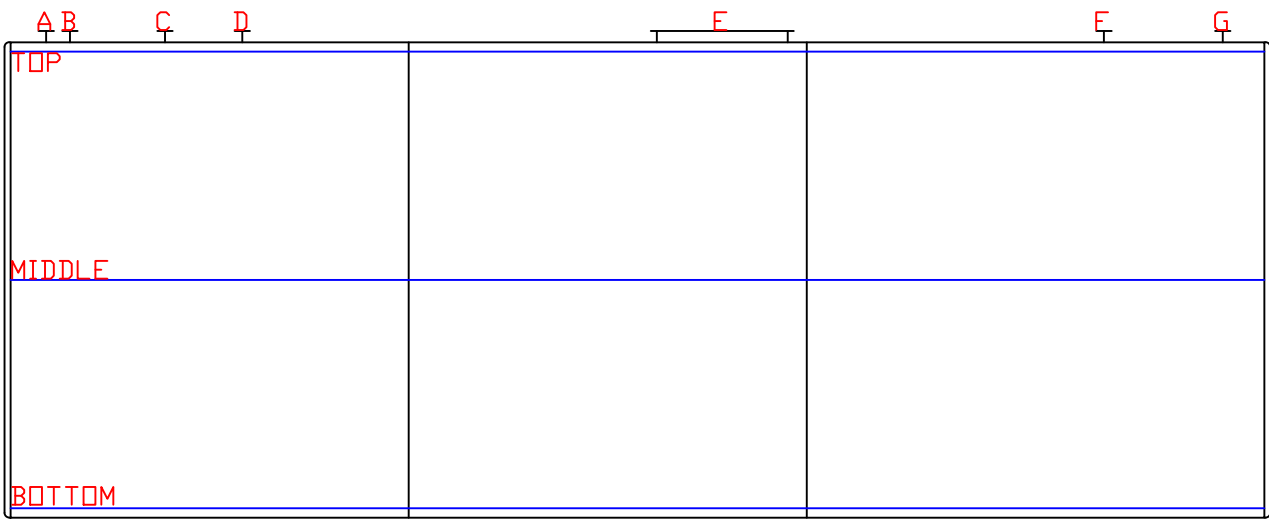
"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

TRIMVIRATE
DAVIE, FL
TANK #2
VESSEL LAYOUT



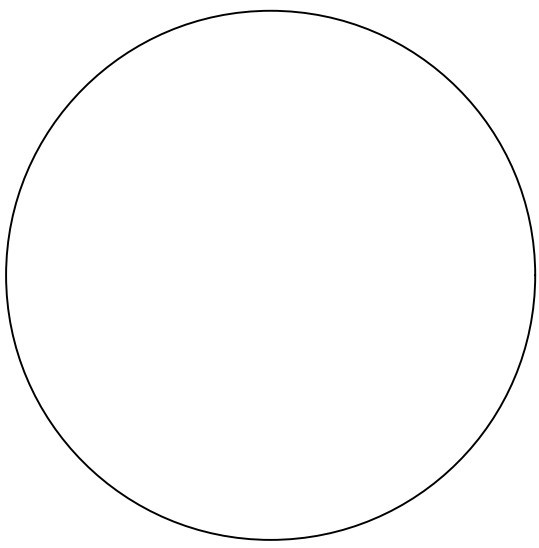
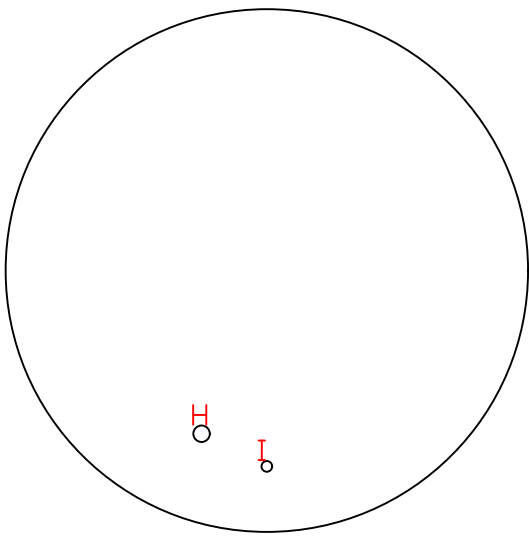
LEGEND
- SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
- INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

DRAWN BY F. BOYD
DRAWN USING AUTO CAD LT
VERSION 2002



HEAD 1

HEAD 2



TANK LAYOUT

PHOTOS



MISSION STATEMENT

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DEBRIS BETWEEN T1 & T2



HEAD 2



EXCESSIVE DEBRIS UNDER TANK



NOZZLES



NOZZLES



PAINT FAILURE

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T2</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank sits directly on the concrete foundation. Tank has an angle beam bolted to the foundation to prevent movement of the tank.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area has excessive amount of debris (pine needles) under the tank.

Debris is trapped between T1 and T2 shell.

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T3



Date of In - Service Inspection: December 4, 2019

A handwritten signature in black ink, reading 'Louis Samaniego'. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T3**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The visual inspection found an excessive amount of debris (pine needles) that has accumulated underneath the tank. This area should be cleaned and free of any debris that may be a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank sits directly on the concrete. The visual inspection found an excessive amount of debris (pine needles) that has accumulated in the area where the concrete and shell make contact.

SUPPORT SYSTEM - The tank sits directly on the concrete foundation. There are angle supports that are bolted to the concrete to prevent the tank from moving. The visual inspection found no conditions of concern.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external lap welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The tank sits directly on the concrete foundation. The visual inspection found that in the area where the tank meets the concrete, excessive debris (pine needles) has accumulated. This may cause moisture to become trapped and may cause corrosion activity. Due to the position of the tank and being in service, it is not possible to determine if corrosion is present in the lower area of the shell. This will need to be evaluated from the internal side of the shell when the tank is out of service. This excessive accumulation of debris is also a potential fire hazard

which is a potential threat to the tank system. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank has a common ladder and platform that is shared with the adjacent tanks. The visual inspection found paint failure on the access system. No other conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T3**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be cleaned (pressure washed) and free of debris to prevent a potential fire hazard and a means for trapping moisture which will cause corrosion activity on the lower shell.
2. At the next available opportunity, the tank should be taken out of service to perform an evaluation on the internal shell, mainly the lower shell, where contact is made with the concrete foundation. This inspection may be used to perform a similar service evaluation on the adjacent tanks that have the same concerns.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T3	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	8.00 feet
Current Product :	USED OIL	Length :	16.00 feet
Code :	UNKNOWN	Design Capacity :	6,000 gal
Product Specific Grav. :	0.960		100 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	4	COUPLING W/PLUG	TOP	0.8	8.00	0.350						
B	3	INLET	TOP	1.8	8.00	WELDED						
C	1.5	4"X1.5" COUPLING W/PLUG	TOP	2.8	8.00	0.310						
D	4	COUPLING W/PLUG	TOP	4.0	8.00	0.350						
E	3	OUTLET	TOP	4.5	8.00							
F	4	COUPLING W/PLUG	TOP	8.5	8.00	WELDED						
G	24	MANWAY	TOP	12.0	8.00		0.264	0.265	0.262			
H	4	COUPLING W/PLUG	TOP	13.0	8.00	0.310						
I	4	HIGH LEVEL ALARM	TOP	15.0	8.00	0.310						
J	3	OUTLET	HEAD 1	4.0	1.00	0.216	0.247	0.212	0.216		0.912	
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T3
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Head 1	MAX = 270 MIN = 266 AVG = 268																																				
	268	270	270	266	270	267	267	269	268	269	269																										
Head 2	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35																																				
	MAX = 269 MIN = 260 AVG = 266																																				
	264	266	269	267	268	267	266	267	260	269	267																										

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T3
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

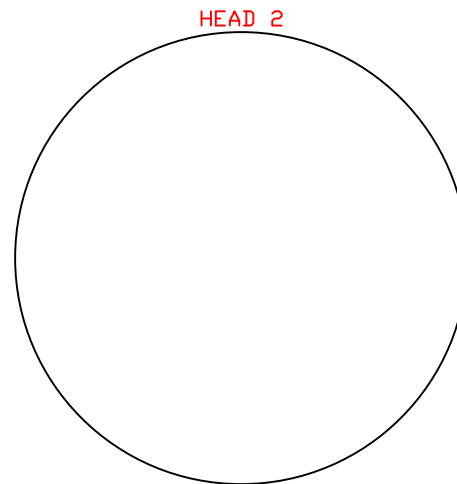
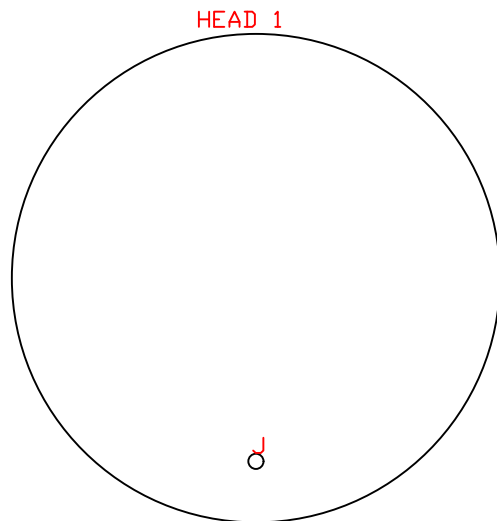
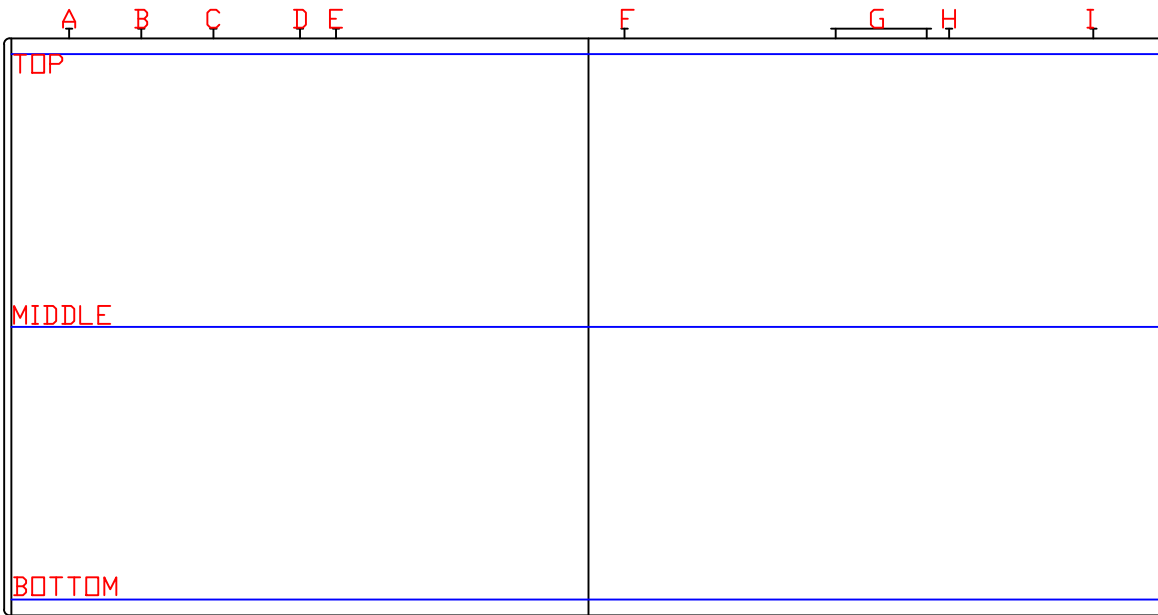
	Point No.====> Readings in thousandths of an inch																																						
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
	MAX = 259 MIN = 245 AVG = 253																																						
Side 1	255	256	256	258	259	256	256	254	255	256	257	255	256	256	255	256	255																						
Side 2	255	256	256	254	253	253	254	250	252	251	247	246	246	252	254	253	252																						
Side 3												249	247	247	247	245	247																						

DRAWINGS



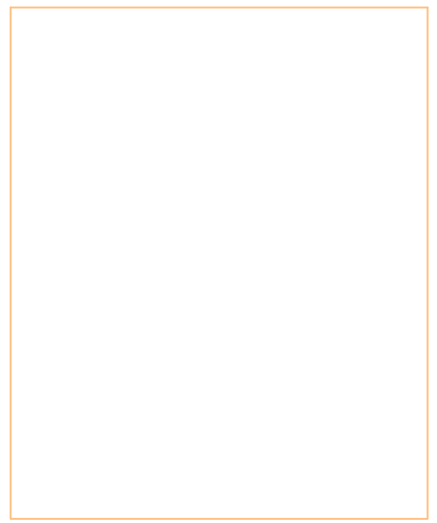
MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."



TANK LAYOUT

TRIMVIRATE
 DAVIE, FL
 TANK #3
 VESSEL LAYOUT



LEGEND
 - SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
 - INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

DRAWN BY F. BOYD
 DRAWN USING AUTO CAD LT
 VERSION 2002



PHOTOS



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NOZZLES



NOZZLES



EXCESSIVE DEBRIS UNDER TANK

CERTIFICATION



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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

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Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T3</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank sits directly on the concrete foundation. Tank has an angle beam bolted to the foundation to prevent movement of the tank.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area has excessive amount of debris (pine needles) under the tank.

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

“DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.”

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T4



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T4**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The visual inspection found an excessive amount of debris (pine needles) that has accumulated underneath the tank. This area should be cleaned and free of any debris that may be a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank sits directly on the concrete. The visual inspection found an excessive amount of debris (pine needles) that has accumulated in the area where the concrete and shell make contact.

SUPPORT SYSTEM - The tank sits directly on the concrete foundation. There are angle supports that are bolted to the concrete to prevent the tank from moving. The visual inspection found no conditions of concern.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external lap welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The tank sits directly on the concrete foundation. The visual inspection found that in the area where the tank meets the concrete, excessive debris (pine needles) has accumulated. This may cause moisture to become trapped and may cause corrosion activity. Due to the position of the tank and being in service, it is not possible to determine if corrosion is present in the lower area of the shell. This will need to be evaluated from the internal side of the shell when the tank is out of service. This excessive accumulation of debris is also a potential fire hazard

which is a potential threat to the tank system. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank has a common ladder and platform that is shared with the adjacent tanks. The visual inspection found paint failure on the access system. No other conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T4**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be cleaned (pressure washed) and free of debris to prevent a potential fire hazard and a means for trapping moisture which will cause corrosion activity on the lower shell.
2. At the next available opportunity, the tank should be taken out of service to perform an evaluation on the internal shell, mainly the lower shell, where contact is made with the concrete foundation. This inspection may be used to perform a similar service evaluation on the adjacent tanks that have the same concerns.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T4	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	8.00 feet
Current Product :	USED OIL/OILY WATER	Length :	16.00 feet
Code :	UNKNOWN	Design Capacity :	6,000 gal
Product Specific Grav. :	0.960		100 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	4	COUPLING W/PLUG	TOP	0.8	8.00	0.310						
B	3	INLET	TOP	1.8	8.00	WELDED						
C	1	3"X1" VENT	TOP	2.8	8.00	0.280						
D	3	OUTLET	TOP	4.5	8.00	WELDED						
E	4	COUPLING W/PLUG	TOP	7.7	8.00	0.310						
F	4	COUPLING W/PLUG	TOP	12.0	8.00	0.310						
G	4	COUPLING W/PLUG	TOP	13.0	8.00	0.310						
H	4	HIGH LEVEL ALARM	TOP	15.0	8.00	0.310						
I	3	OUTLET	HEAD 1	4.0	1.00	0.226	0.224	0.228	0.226		0.902	
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T4
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Head 1	MAX = 267 MIN = 259 AVG = 264																																				
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	MAX = 267 MIN = 261 AVG = 264																																				
	261	266	267	263	266	265	266	264	261	265	264																										

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T4
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

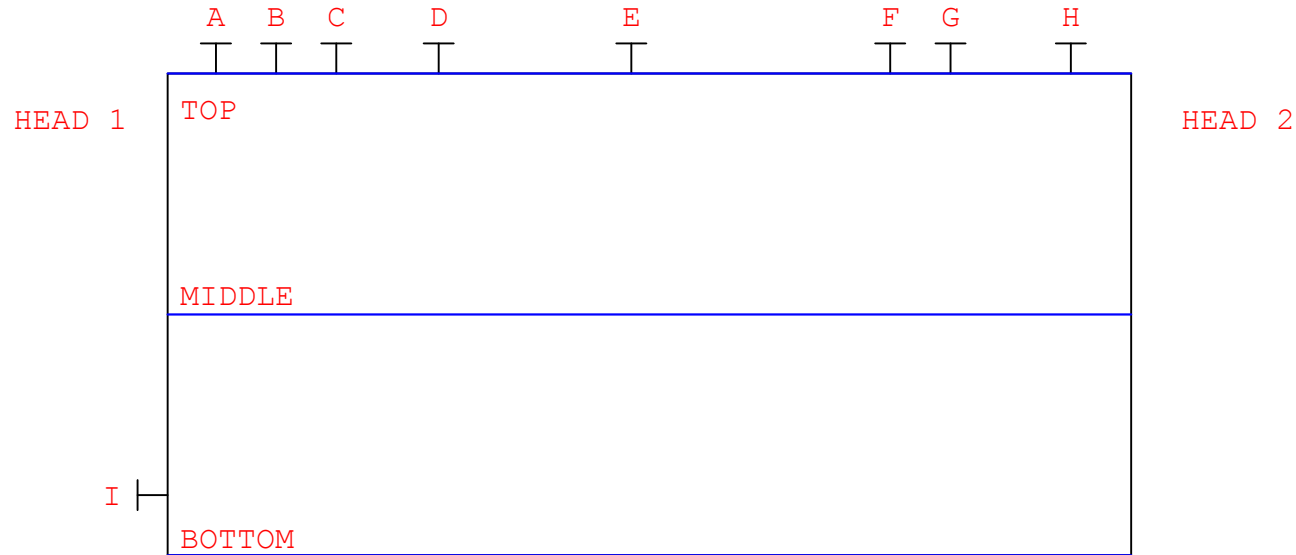
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DRAWINGS



MISSION STATEMENT

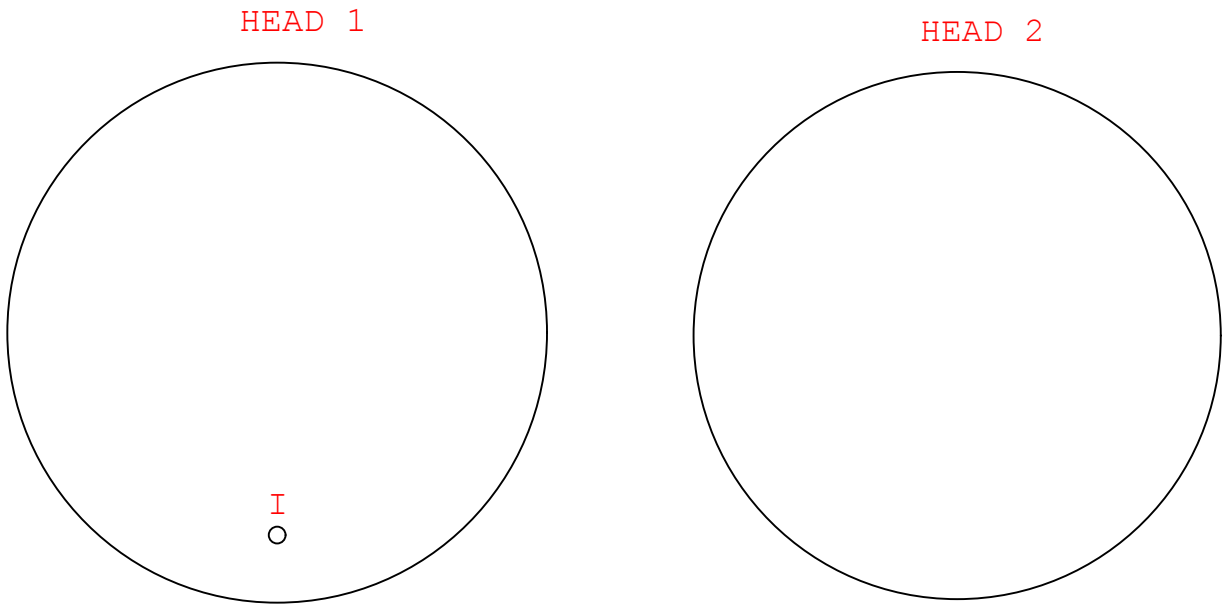
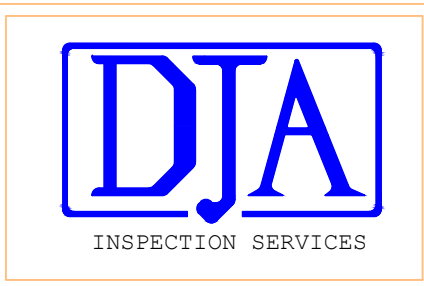
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TRIUMVIATE
 DAVIE, FL
 TANK # 4
 HORIZONTAL TANK LAYOUT

— - INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN ALONG THE TANK.
 - SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.

DRAWN BY C. KREPP
 DRAWN USING AUTO CAD LT
 VERSION 2019



HORIZONTAL TANK LAYOUT

PHOTOS



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NOZZLES



NOZZLES



NOZZLES



PAINT FAILURE



EXCESSIVE DEBRIS UNDER TANK

CERTIFICATION



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Aboveground Tank Inspector
Certification Program
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Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

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Steel Tank Institute

Louis Samaniego

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Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

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Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T4</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

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4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area has excessive amount of debris (pine needles) under the tank.

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

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D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T5



Date of In - Service Inspection: December 4, 2019

A handwritten signature in black ink, appearing to read "Louis Samaniego". The signature is fluid and cursive.

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

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DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T5**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The visual inspection found an excessive amount of debris (pine needles) that has accumulated underneath the tank. This area should be cleaned and free of any debris that may be a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank sits directly on the concrete. The visual inspection found an excessive amount of debris (pine needles) that has accumulated in the area where the concrete and shell make contact.

SUPPORT SYSTEM - The tank sits directly on the concrete foundation. There are angle supports that are bolted to the concrete to prevent the tank from moving. The visual inspection found no conditions of concern.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external butt welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The tank sits directly on the concrete foundation. The visual inspection found that in the area where the tank meets the concrete, excessive debris (pine needles) has accumulated. This may cause moisture to become trapped and may cause corrosion activity. Due to the position of the tank and being in service, it is not possible to determine if corrosion is present in the lower area of the shell. This will need to be evaluated from the internal side of the shell when the tank is out of service. The visual inspection also found debris trapped between the shell of

this tank and the adjacent tank (T6). This is also an area where moisture may become trapped and cause corrosion activity. This excessive accumulation of debris is also a potential fire hazard which is a potential threat to the tank system. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank has a common ladder and platform that is shared with the adjacent tanks. The visual inspection found paint failure on the access system. No other conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T5**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be cleaned (pressure washed) and free of debris to prevent a potential fire hazard and a means for trapping moisture which will cause corrosion activity on the lower shell.
2. Clean the debris that has accumulated between the shell of this tank and the adjacent tank (T6).
3. At the next available opportunity, the tank should be taken out of service to perform an evaluation on the internal shell, mainly the lower shell, where contact is made with the concrete foundation. This inspection may be used to perform a similar service evaluation on the adjacent tanks that have the same concerns.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T5	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1987
Tank Description :	BUTT WELDED	Diameter :	10.00 feet
Current Product :	USED OIL	Length :	18.00 feet
Code :	UNKNOWN	Design Capacity :	10,600 gal
Product Specific Grav. :	0.960		300 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	3	VENT	TOP	1.2	8.00	0.200						
B	4	COUPLING W/PLUG	TOP	2.0	8.00	0.250						
C	3	INLET	TOP	3.5	8.00	WELDED						
D	3	OUTLET	TOP	4.1	8.00	WELDED						
E	24	MANWAY	TOP	9.2	8.00	0.236	0.237	0.234	0.237		0.238	
F	4	HIGH LEVEL ALARM	TOP	17.4	8.00	0.310						
G	4	COUPLING W/PLUG	HEAD 1	5.0	0.25							
H	3	OUTLET	HEAD 1	5.0	1.00	0.223	0.223	0.223	0.224		0.909	
I												
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T5
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
	MAX = 283 MIN = 275 AVG = 280																																				
Head 1	275	276	276	277	275	280	283	282	283	281	282	281	283																								
	MAX = 298 MIN = 274 AVG = 288																																				
Head 2	292	291	298	296	296	293	290	293	274	276	281	282	281																								

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T5
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

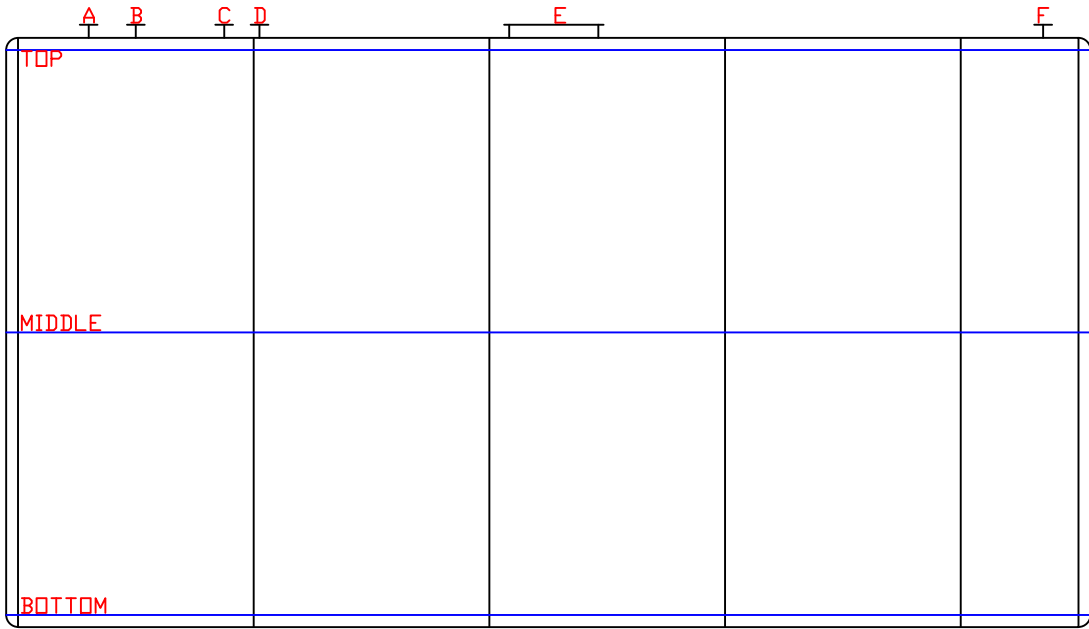
	Point No.====> Readings in thousandths of an inch																																						
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
	MAX = 331 MIN = 239 AVG = 302																																						
Side 1	326	327	331	318	324	324	324	324	326	331	328	327	331	242	251	252	239	331	327																				
Side 2	313	318	319	322	321	320	324	323	321	319	320	311	310	241	244	242	249	326	326																				
Side 3													305	253	252	246	244	305	313																				

DRAWINGS



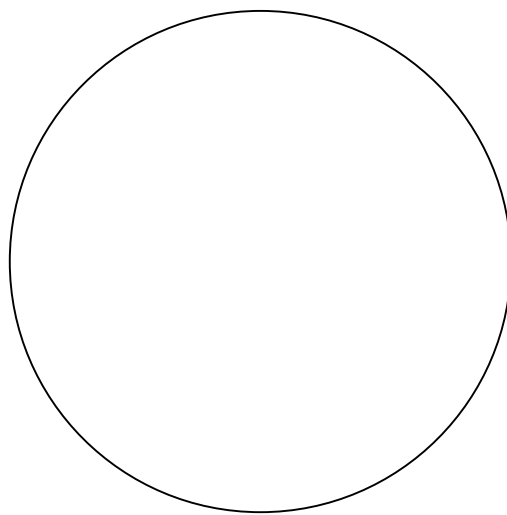
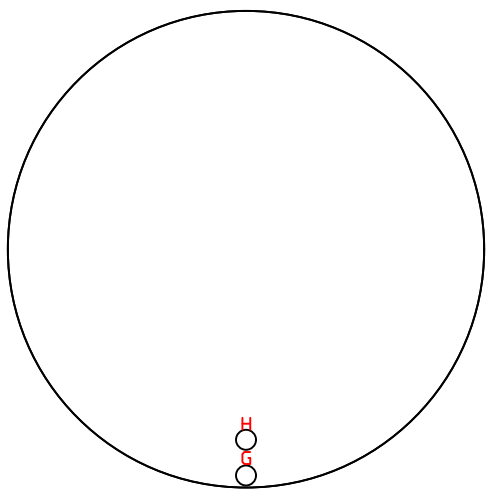
MISSION STATEMENT

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HEAD 1

HEAD 2



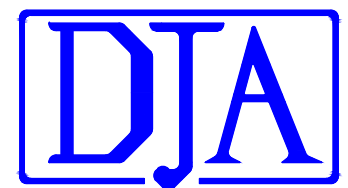
TANK LAYOUT

TRUMVIATE
DAVIE, FL
TANK #5



LEGEND
- SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
- INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

DRAWN BY F. BOYD
DRAWN USING AUTO CAD LT
VERSION 2002



INSPECTION SERVICES

PHOTOS



MISSION STATEMENT

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NOZZLES



NOZZLES



NOZZLES



EXCESSIVE DEBRIS UNDER TANK



DEBRIS BETWEEN TANKS

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T5</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank sits directly on the concrete foundation. Tank has an angle beam bolted to the foundation to prevent movement of the tank.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	There is a small dent on the head.
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area has excessive amount of debris (pine needles) under the tank.

There is debris trapped between the shell of T5 and T6.

TEMPLATES

Templates will be available upon request.



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D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

**TRIUMVIRATE
DAVIE, FL
Tank #T6**



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

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**TRIUMVIRATE
DAVIE, FL
TANK #T6**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The visual inspection found an excessive amount of debris (pine needles) that has accumulated underneath the tank. This area should be cleaned and free of any debris that may be a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank sits directly on the concrete. The visual inspection found an excessive amount of debris (pine needles) that has accumulated in the area where the concrete and shell make contact.

SUPPORT SYSTEM - The tank sits directly on the concrete foundation. There are angle supports that are bolted to the concrete to prevent the tank from moving. The visual inspection found no conditions of concern.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external lap welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The tank sits directly on the concrete foundation. The visual inspection found that in the area where the tank meets the concrete, excessive debris (pine needles) has accumulated. This may cause moisture to become trapped and may cause corrosion activity. Due to the position of the tank and being in service, it is not possible to determine if corrosion is present in the lower area of the shell. This will need to be evaluated from the internal side of the shell when the tank is out of service. The visual inspection also found debris trapped between the shell of

this tank and the adjacent tank (T5). This is also an area where moisture may become trapped and cause corrosion activity. This excessive accumulation of debris is also a potential fire hazard which is a potential threat to the tank system. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank has a common ladder and platform that is shared with the adjacent tanks. The visual inspection found paint failure on the access system. No other conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T6**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be cleaned (pressure washed) and free of debris to prevent a potential fire hazard and a means for trapping moisture which will cause corrosion activity on the lower shell.
2. Clean the debris that has accumulated between the shell of this tank and the adjacent tank (T5).
3. At the next available opportunity, the tank should be taken out of service to perform an evaluation on the internal shell, mainly the lower shell, where contact is made with the concrete foundation. This inspection may be used to perform a similar service evaluation on the adjacent tanks that have the same concerns.

SPREADSHEETS



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T6	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1987
Tank Description :	LAP	Diameter :	10.50 feet
Current Product :	WASTE DIESEL	Length :	14.60 feet
Code :	UNKNOWN	Design Capacity :	9,500 gal
Product Specific Grav. :	0.960		200 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	3	COUPLING W/PLUG	TOP	1.0	8.00	0.200						
B	2	3"X2" COUPLING W/PLUG	TOP	2.0	8.00	0.350						
C	3	INLET	TOP	2.8	8.00	WELDED						
D	3	OUTLET	TOP	4.6	8.00	WELDED						
E	16	MANWAY	TOP	9.4	8.00	0.201	0.199	0.198	0.203			
F	3	HIGH LEVEL ALARM	TOP	15.0	8.00	0.180						
G	2	COUPLING W/PLUG	HEAD 1	5.3	8.00							
H	3	OUTLET	HEAD 1	5.3	1.50	0.191	0.193	0.190	0.192		0.960	
I												
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T6
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Head 1	MAX = 264 MIN = 250 AVG = 258																																				
	250	256	261	263	263	264	264	264	259	252	251	251	252																								
Head 2	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35																																				
	MAX = 268 MIN = 242 AVG = 255																																				
	262	268	263	251	252	252	263	258	257	250	250	242	250																								

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T6
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

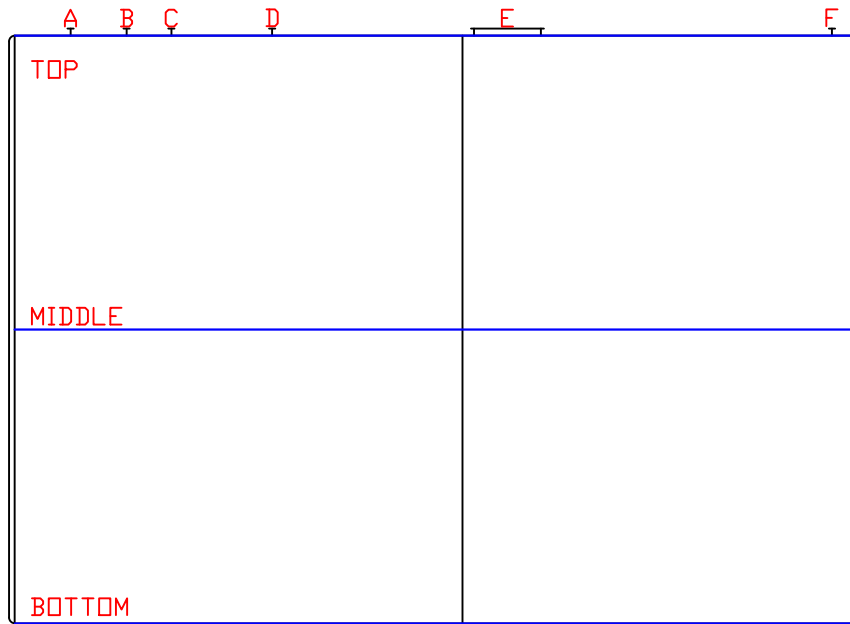
	Point No.====> Readings in thousandths of an inch																																					
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
	MAX = 276 MIN = 238 AVG = 257																																					
Top																																						
Middle	244	256	271	274	253	256	264	243	256	269	275	276	272	264	253																							
Bottom	238	242	239	256	266	269	267	266	265	257	255	256	239	238	238																							

DRAWINGS



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

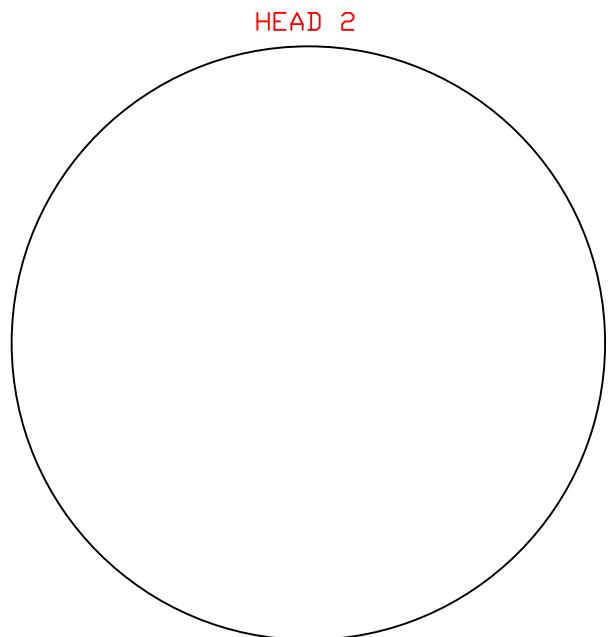
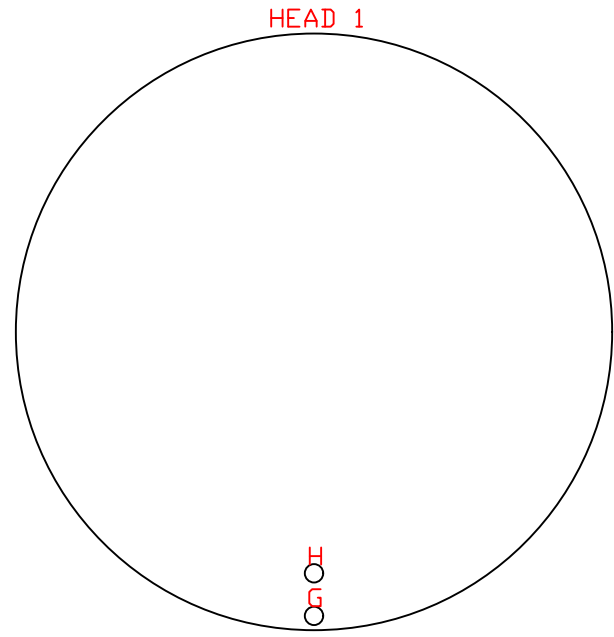


TRIMVIATE
 DAVIE, FL
 TANK #6
 VESSEL LAYOUT



LEGEND
 - SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
 - INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

DRAWN BY F. BOYD
 DRAWN USING AUTO CAD LT
 VERSION 2002



TANK LAYOUT

PHOTOS



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DEBRIS BETWEEN TANKS



PAINT FAILURE



EXCESSIVE DEBRIS UNDER TANK



NOZZLES



NOZZLES



NOZZLES

CERTIFICATION



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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T6</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank sits directly on the concrete foundation. Tank has an angle beam bolted to the foundation to prevent movement of the tank.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	There is a small dent on the head.
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area has excessive amount of debris (pine needles) under the tank.

There is debris trapped between the shell of T6 and T5.

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T7



Date of In - Service Inspection: December 4, 2019



Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T7**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. No conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. No conditions of concern were found.

SUPPORT SYSTEM - The tank sits on three (3) saddle supports constructed with five (5) 3" diameter pipes which are bolted to the concrete foundation. The visual inspection found the support reinforcement plate is not seal welded to the tank shell. This is an area where moisture may become trapped and corrosion may occur. No other conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external lap welded shell and heads were visually inspected and thickness readings were taken at accessible areas. The visual inspection found the reinforcement pads of the saddle supports are not sealed to the shell. This is an area where moisture may become trapped and corrosion may occur. The paint coating on the shell and heads has failed and bare steel is exposed.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found paint failure on the nozzles and corrosion activity is present on the manways. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found paint failure on the entire tank system with bare steel exposed. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; manually gauged and a high level alarm.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The visual inspection of the stairway and platform found no conditions of concern.

PIPING - The piping connections at the tank were visually inspected. The visual inspection found paint failure present. No other conditions of concern were found.

**TRIUMVIRATE
DAVIE, FL
TANK #T7**

In-Service Inspection of 12/04/2019

Recommendations:

No recommendations at this time.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	T7	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1993
Tank Description :	LAP WELDED	Diameter :	8.00 feet
Current Product :	USED OIL / OILY WATER	Length :	26.00 feet
Code :	UNKNOWN	Design Capacity :	9,800 gal
Product Specific Grav. :	0.960		200 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS / UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	UNKNOWN
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: T
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	4	COUPLING W/PLUG	TOP	0.7	8.00	0.400						
B	4	HIGH LEVEL ALARM	TOP	2.8	8.00	0.400						
C	24	MANWAY W/ MIXER	TOP	8.0	8.00	0.223	0.225	0.222	0.224			
D	4	COUPLING W/PLUG	TOP	13.3	8.00	0.400						
E	24	MANWAY W/ MIXER	TOP	17.9	8.00	0.222	0.224	0.224	0.227			
F	3	4"X3" INLET	TOP	21.1	8.00	WELDED						
G	4	COUPLING W/PLUG	TOP	23.2	8.00	0.400						
H	4	VENT	TOP	25.1	8.00	0.400						
I	3	OUTLET	BOTTOM	25.4	0.00	0.207	0.208	0.201	0.207			
J	3	OUTLET	HEAD 1	4.0	0.40	0.227	0.220	0.226	0.222		0.924	
K	3	WATER DRAW	HEAD 1	5.0	0.50	0.220	0.220	0.218	0.216		0.953	
L	1	CLOSED VALVE	HEAD 1	4.0	0.90	0.220						
M	2	HEAT COIL	HEAD 1	4.0	1.25	0.240	0.242	0.242	0.241		0.726	
N	2	HEAT COIL	HEAD 1	1.9	2.25	0.246	0.246	0.247	0.240		0.725	
O	2	HEAT COIL	HEAD 1	6.1	2.25	0.252	0.250	0.250	0.247		0.725	
P	24	MANWAY W/ 1" TI	HEAD 1	5.0	4.60	0.225	0.223	0.223	0.225		0.246	0.247
Q	6	CLOSED VALVE	HEAD 1	5.0	7.30	0.267	0.269	0.271	0.269		0.958	
R	24	MANWAY W/ (3) 3/4" SAMPLE	HEAD 2	4.0	1.20	0.224	0.221	0.226	0.222		0.246	0.247
S	1	SAMPLE	HEAD 2	2.5	3.00	0.220						
T	6	INLET	HEAD 2	4.0	4.00		0.269	0.271	0.272		0.976	
U	1	SAMPLE	HEAD 2	2.5	4.15	0.220						
V	1	SAMPLE	HEAD 2	2.5	5.15	0.220						
W	1	SAMPLE	HEAD 2	2.5	6.15	0.220						
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T7
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Head 1	MAX = 258 MIN = 254 AVG = 256																																				
	258	255	257	256	257	254	256	255	255	255	254																										
Head 2	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35																																				
	MAX = 511 MIN = 253 AVG = 280																																				
	511	259	261	257	258	258	254	255	256	255	253																										

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: T7
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/04/2019

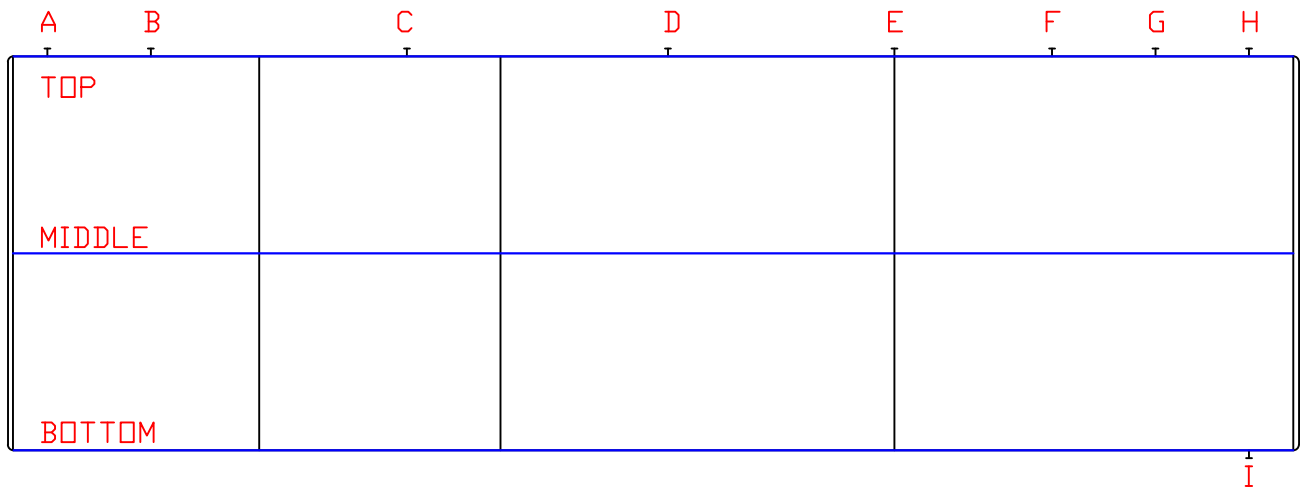
	Point No.====> Readings in thousandths of an inch																																					
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
	MAX = 273 MIN = 231 AVG = 254																																					
Top	257	264	265	269	268	268	265	261	257	256	261	263	262	262	255	249	243	243	238	241	239	240	236	237	241	242												
Middle	239	240	242	236	237	235	246	242	251	252	243	256	261	263	263	260	258	256	261	261	265	268	268	268	265	263												
Bottom	233	231	236	234	237	231	243	243	244	245	244	258	261	264	268	268	268	265	261	264	266	269	271	271	273	270												

DRAWINGS

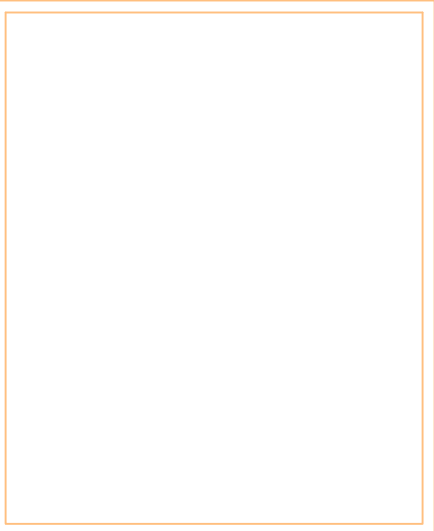


MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."



TRIUMVIATE
 DAVIE, FL
 TANK #T7
 VESSEL LAYOUT

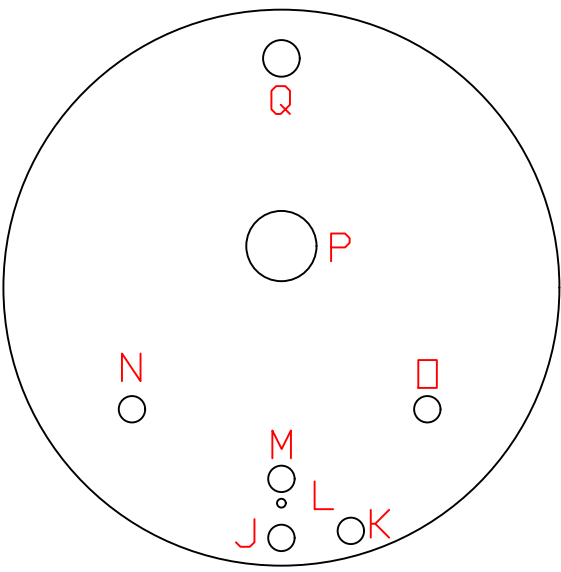


LEGEND
 - SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
 - INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

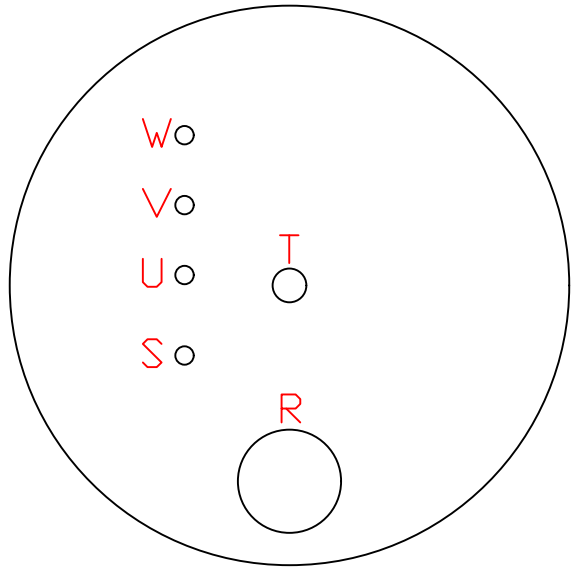
DRAWN BY F. BOYD
 DRAWN USING AUTO CAD LT
 VERSION 2002



HEAD 1



HEAD 2



TANK LAYOUT

PHOTOS



MISSION STATEMENT

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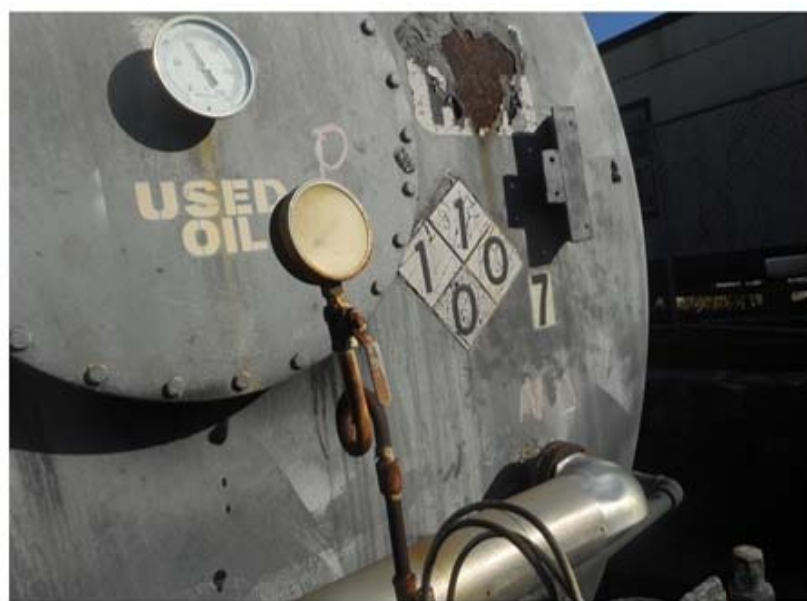
NOZZLES



NOZZLES



NOZZLES



NOZZLES



NOZZLES



NOZZLES



NOZZLES



NOZZLES



SUPPORT



CORROSION ON MANWAY



ACCESS

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T7</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Three saddle supports made of 3" diameter pipe.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Paint failure on the tank system and bare steel is exposed.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Manway is open and is used for gauging and venting. Manways have corrosion.
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T8



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T8**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found minor paint failure.

SHELL - The shell was visually inspected and thickness readings were taken. The shell horizontal weld seams are lap welded. The vertical weld seams are both lap and butt welded. The shell is coated with paint and the lower 1.5' has a fiberglass coating. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension was visually inspected. No conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The lower 1.5' of the shell is coated with fiberglass. The visual inspection found random areas where the paint is starting to peel. The visual inspection also found paint failure on the roof. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T8**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T8	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1987
Tank Description :	BUTT & LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL AND WASTE DIESEL	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBUENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT
Floating Roof? : N
If so, description : NONE
Type of Seals :

 Primary : NONE
 Secondary : NONE

Floating Roof Access? : N
If so, description : NONE

Bottom Construction : UNKNOWN
Second Bottom? : N
Second Bottom Type: NA

Year Installed :
External Finish : PAINT
Internal Lining : UNKNOWN
Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	2	COUPLING W/VALVE	SC0101	5.60	3.00							
B	18	MANWAY	SC0101	17.50	3.60	0.222	0.223	0.223	0.224		0.243	0.242
C	3	OUTLET	SC0101	22.20	2.95	0.212	0.212	0.215	0.214		0.891	
D	2	COUPLING W/PLUG	SC0102	0.30	0.25							
E	2	COUPLING W/PLUG	SC0102	0.30	2.00							
F												
G												
H												
I												
J												
K												
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Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T8

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																											
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35									
SC-1		MAX =		256		MIN =		251		AVG =		254																																	
	1	255	254	254	254	256	253	251	251																																				
	2	255	255	253																																									
	3																																												
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Shell Vertical Thickness Readings

Tank #: T8

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>						Readings in thousandths of an inch				
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 260 MIN: 248 AVG: 255.3										
	1			260	260	259	258	254	251			
	2			259	257	260	257	256	253			
	3			253	254	254	255	251	248			
	4			253	258	259	255	253	250			
SC-2		MAX: 206 MIN: 202 AVG: 204.8										
	1	206	206	205	204	202	206					
	2											
	3											
	4											
SC-3		MAX: 212 MIN: 207 AVG: 209.5										
	1	207	208	208	211	212	211					
	2											
	3											
	4											
SC-4		MAX: 207 MIN: 202 AVG: 204										
	1	204	207	205	203	202	203					
	2											
	3											
	4											
SC-5		MAX: 205 MIN: 202 AVG: 203.5										
	1	205	202	204	204	204	202					
	2											
	3											
	4											

DRAWINGS



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TRIUMVIRATE
DAVIE, FL
TANK #8
TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

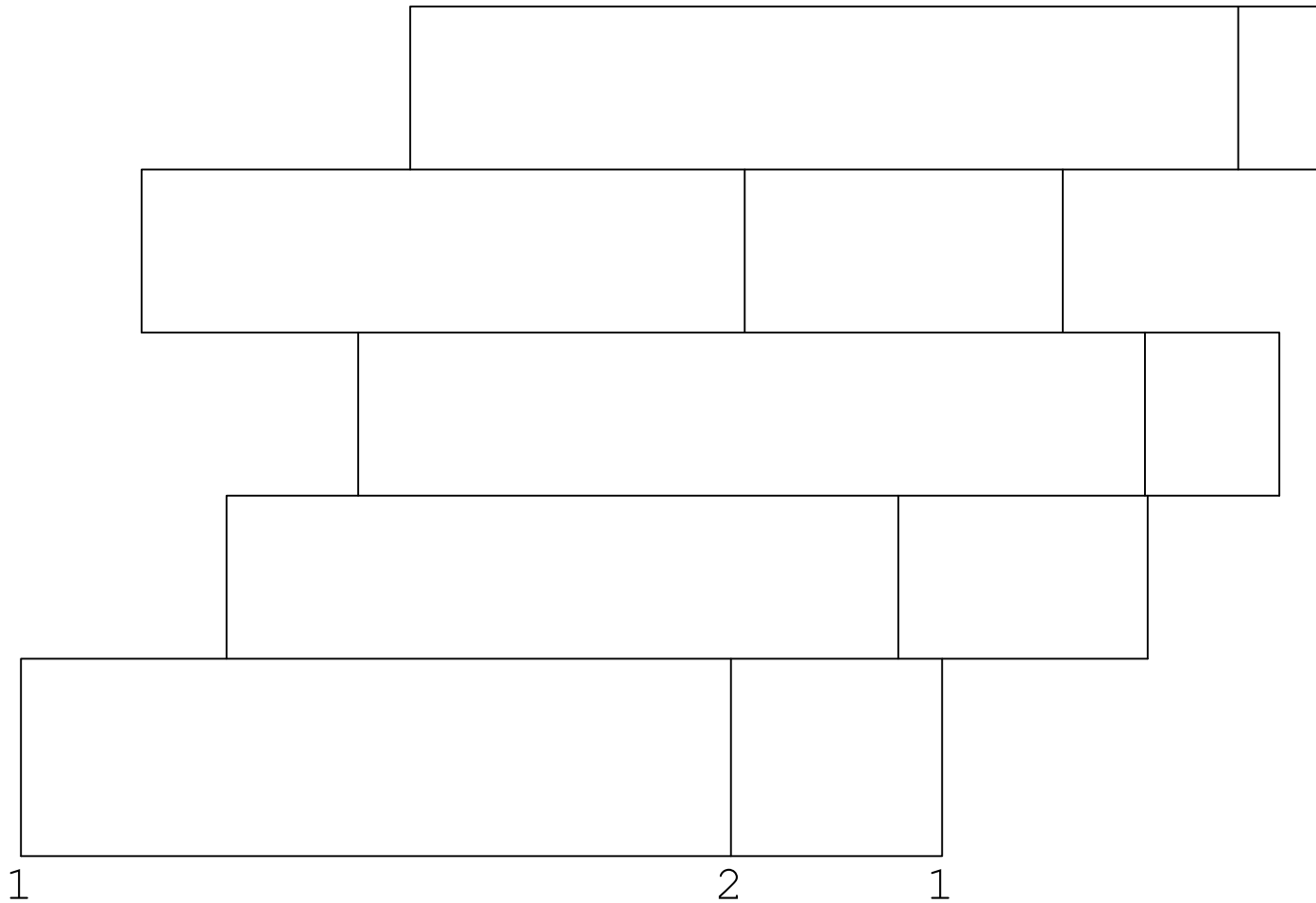
LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES



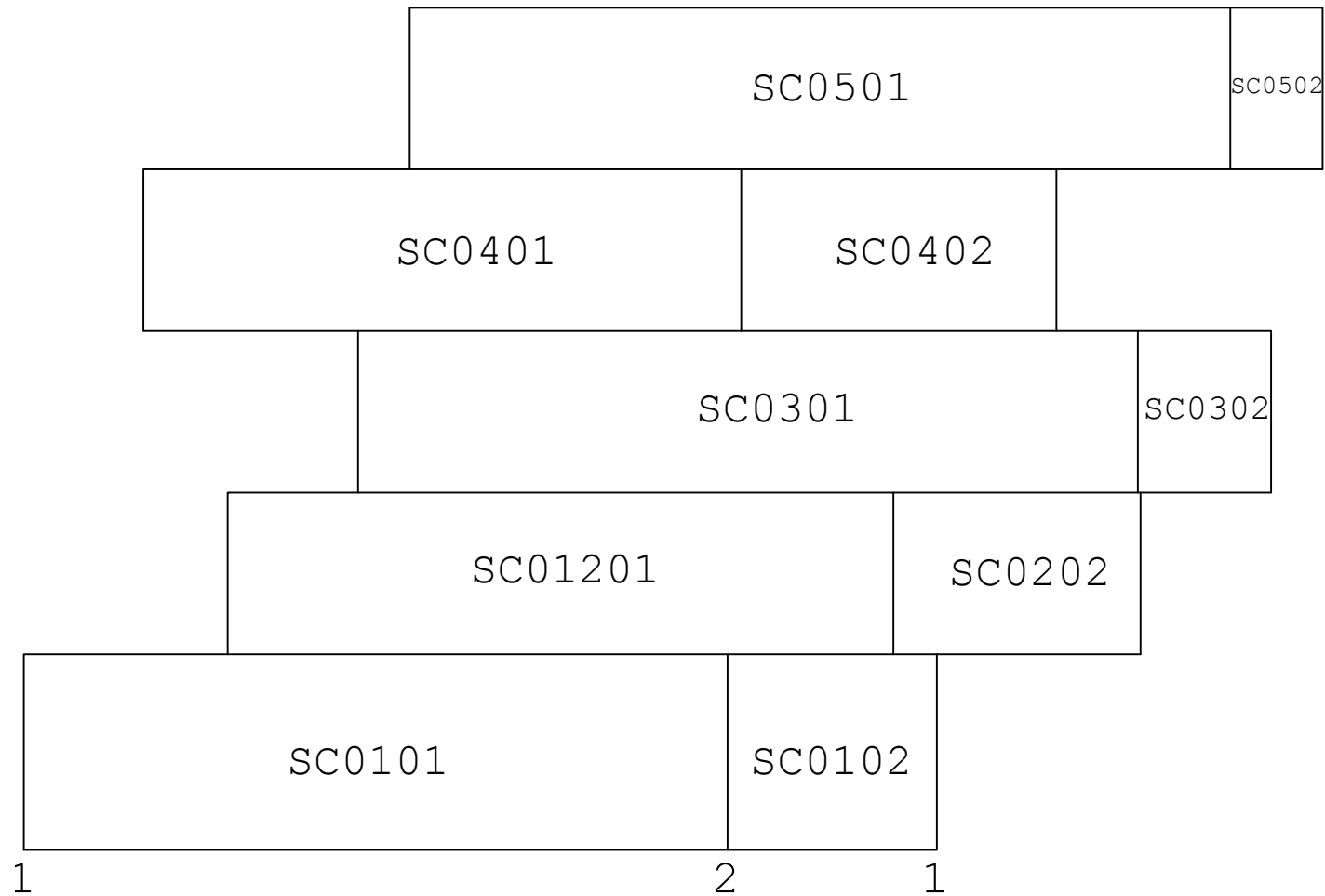
TANK LAYOUT

TRIVIRATE
DAVIE, FL
TANK #8
SHEET IDENTIFICATION

NOTES
SC### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

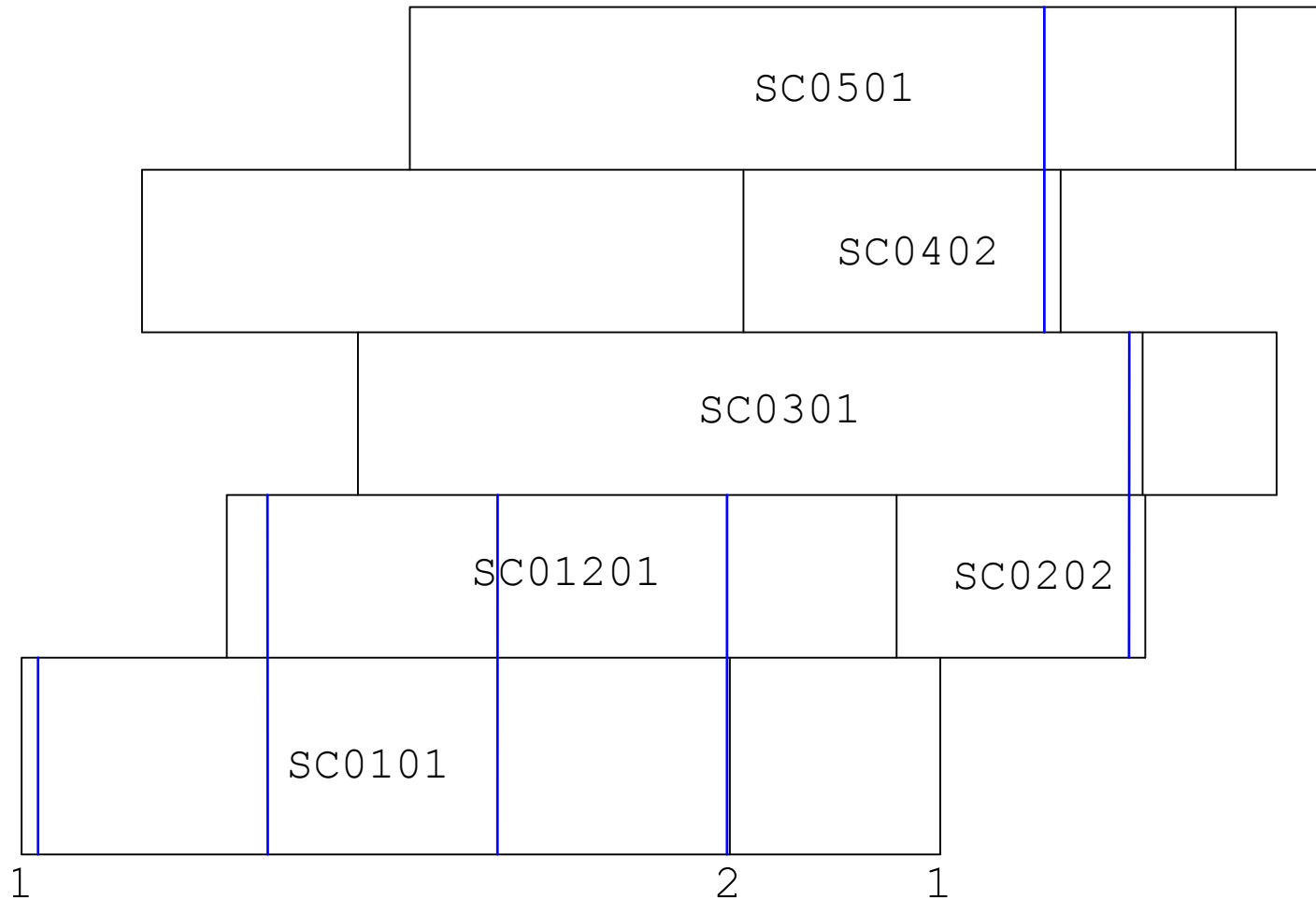
LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #8
VERTICAL THICKNESS READINGS



NOTES

SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

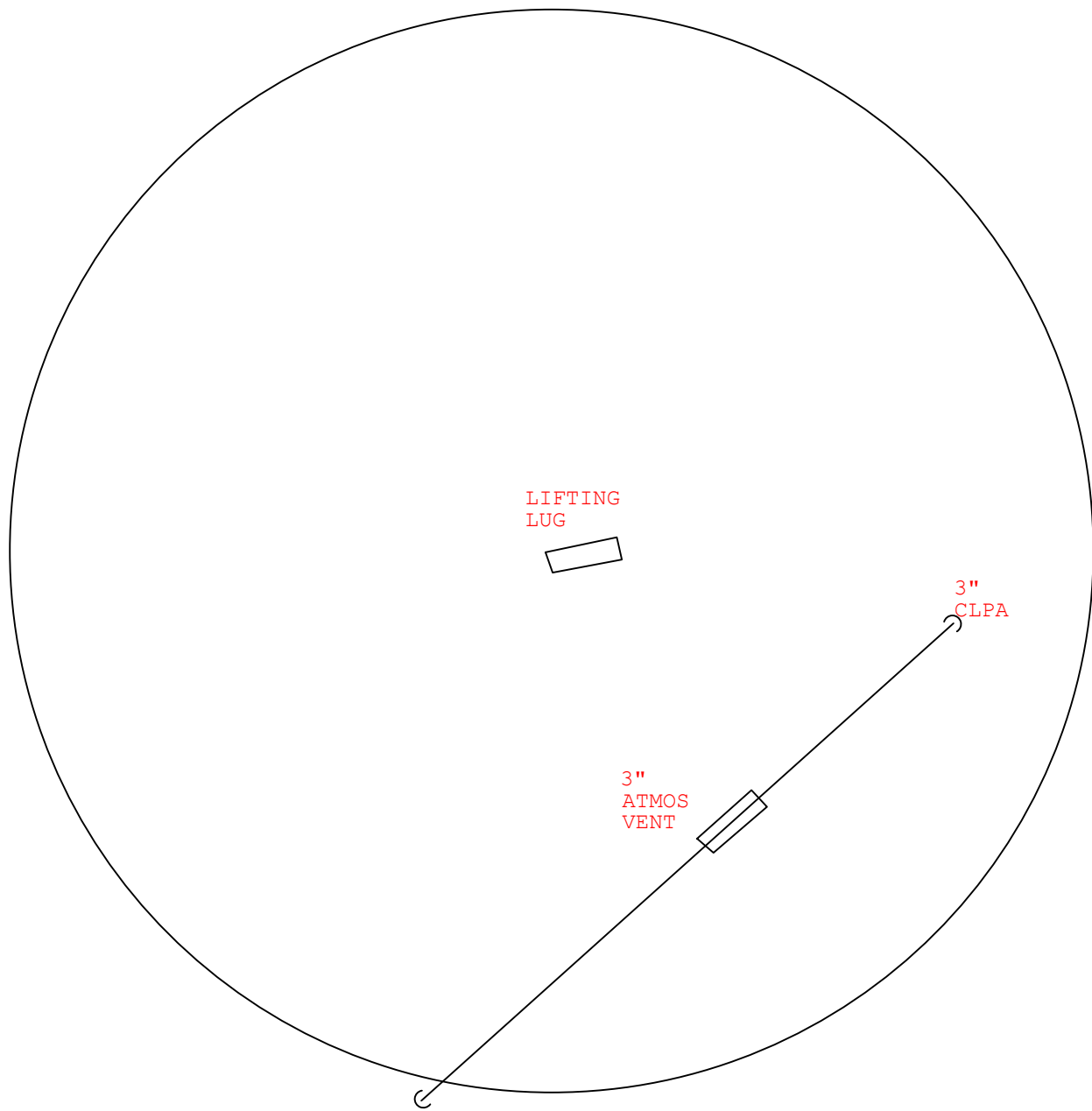
LEGEND

| - INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

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DRAWN USING AUTO CAD LT
VERSION 2019



VERTICAL THICKNESS READINGS



TRIVIRATE
DAVIE, FL
TANK #8
ROOF LAYOUT

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



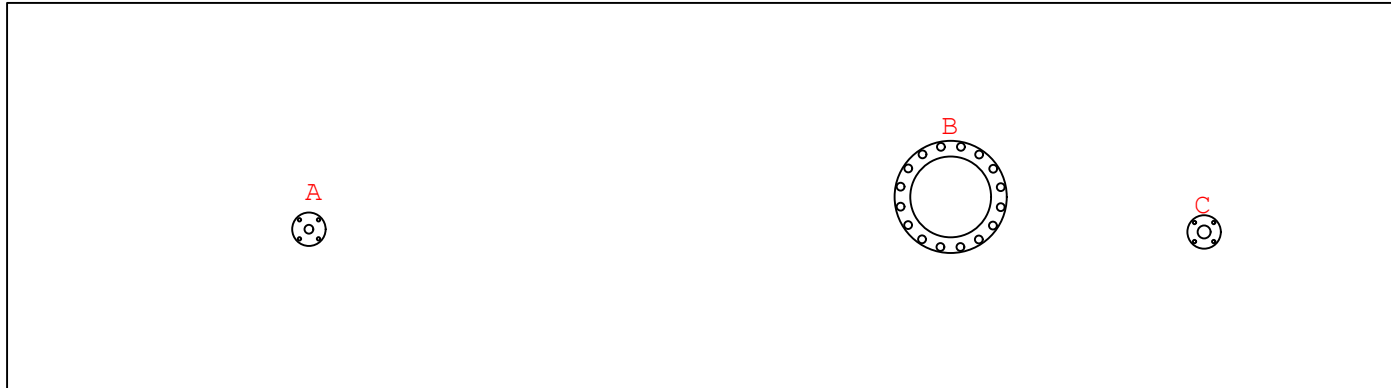
FIXED ROOF LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #8
TANK SHEET #SC0101

NOTES

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #8
TANK SHEET #SC0102

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



E
○

D
○

NOZZLE LAYOUT

PHOTOS



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NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D, E



ANCHOR



TANK BRACING



ROOF

CERTIFICATION



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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

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Dana Schmidt, P.E.
Steel Tank Institute



Issue Date:
01/03/2019

The official status of this certificate can be verified at www.steeltank.com.

RAW DATA

Available upon request.



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T8</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Random areas where the paint is peeling.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	There are minor dents on the shell on the top course.
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T9



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T9**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found minor paint failure.

SHELL - The shell was visually inspected and thickness readings were taken. The shell horizontal weld seams are lap welded. The vertical weld seams are both lap and butt welded. The shell is coated with paint and the lower 1.5' has a fiberglass coating. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension was visually inspected. No conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The lower 1.5' of the shell is coated with fiberglass. The visual inspection found random areas where the paint is starting to peel. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T9**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T9	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	BUTT & LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL/OILY WATER	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	2	COUPLING W/VALVE	SC0101	3.60	2.95							
B	3	COUPLING W/PLUG	SC0101	7.20	0.50							
C	2	COUPLING W/PLUG	SC0101	7.70	0.25							
D	18	MANWAY	SC0101	16.20	2.50	0.365	0.364	0.363	0.365		0.375	0.371
E	3	OUTLET	SC0101	21.00	2.95	0.214	0.215	0.215	0.212		0.920	
F	2	COUPLING W/PLUG	SC0102	7.80	6.00							
G												
H												
I												
J												
K												
L												
M												
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P												
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S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T9

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
SC-1		MAX =		251		MIN =		237		AVG =		245																											
	1	251	246	247	247	248	249	249	249	247																													
	2	237	238	238	241																																		
	3																																						
	4																																						
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30																																							

Shell Vertical Thickness Readings

Tank #: T9

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>						Readings in thousandths of an inch				
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 257 MIN: 229 AVG: 246										
	1			254	257	255	254	252	248			
	2			238	236	236	235	233	229			
	3			249	251	251	252	251	245			
	4			246	248	249	249	245	240			
SC-2		MAX: 193 MIN: 189 AVG: 191.5										
	1	189	191	192	193	192	192					
	2											
	3											
	4											
SC-3		MAX: 220 MIN: 217 AVG: 218.5										
	1	220	219	217	219	218	218					
	2											
	3											
	4											
SC-4		MAX: 207 MIN: 204 AVG: 205.8										
	1	204	204	206	207	207	207					
	2											
	3											
	4											
SC-5		MAX: 224 MIN: 221 AVG: 222.7										
	1	223	222	222	224	224	221					
	2											
	3											
	4											

DRAWINGS



MISSION STATEMENT

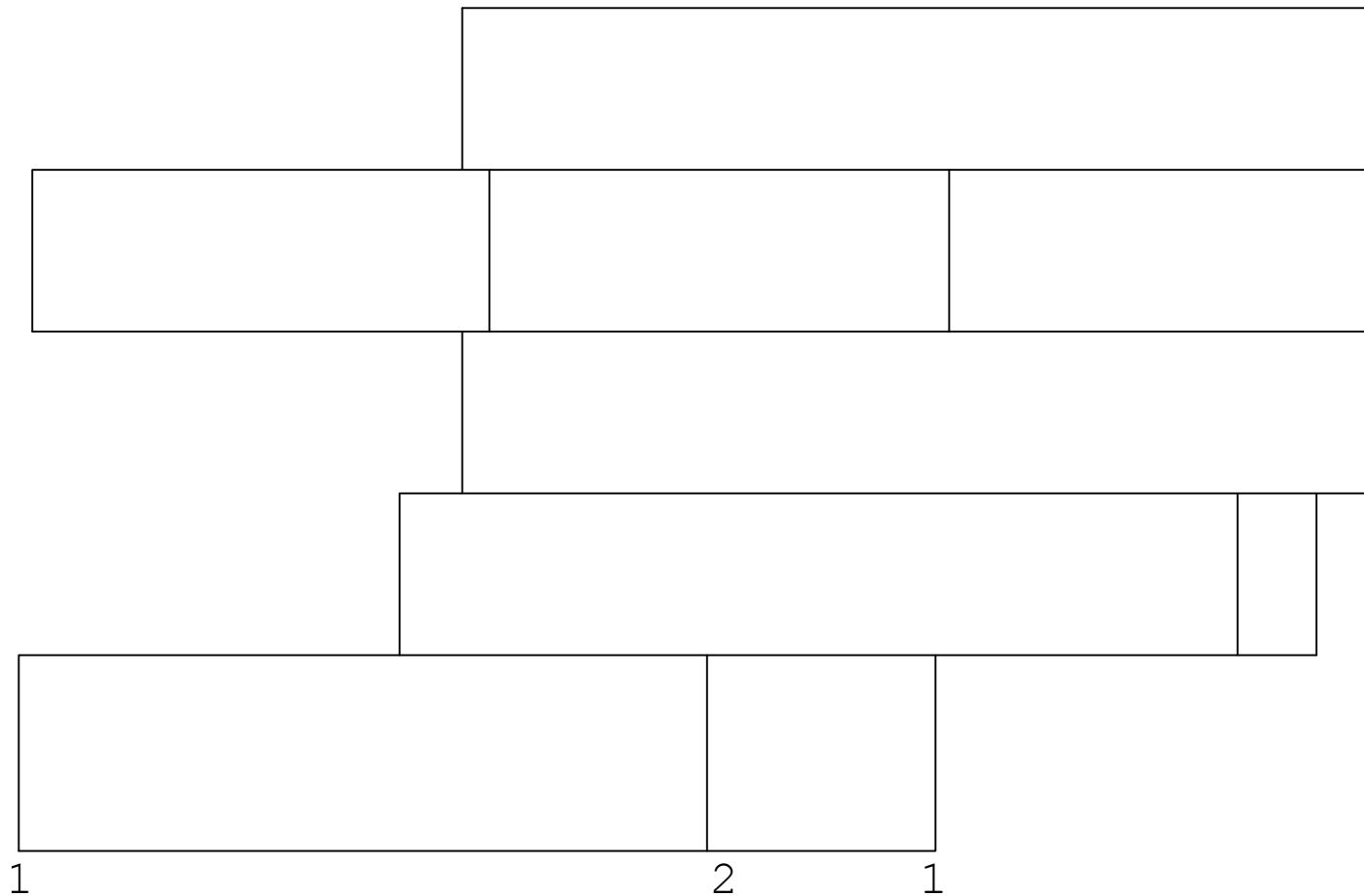
"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

TRIVIRATE
DAVIE, FL
TANK #9
SHEET IDENTIFICATION

NOTES
SC### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



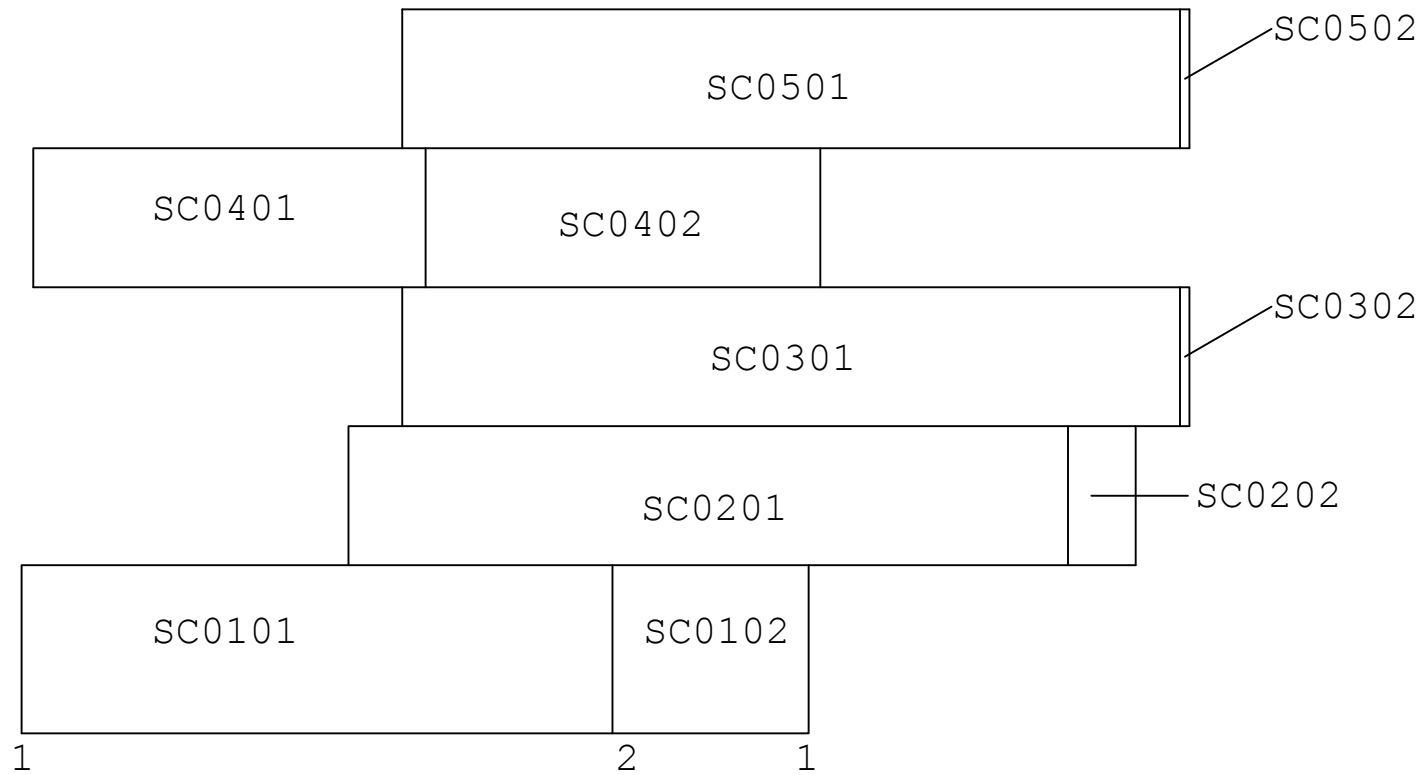
SHEET IDENTIFICATION

TRIVIRATE
DAVIE, FL
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SHEET IDENTIFICATION

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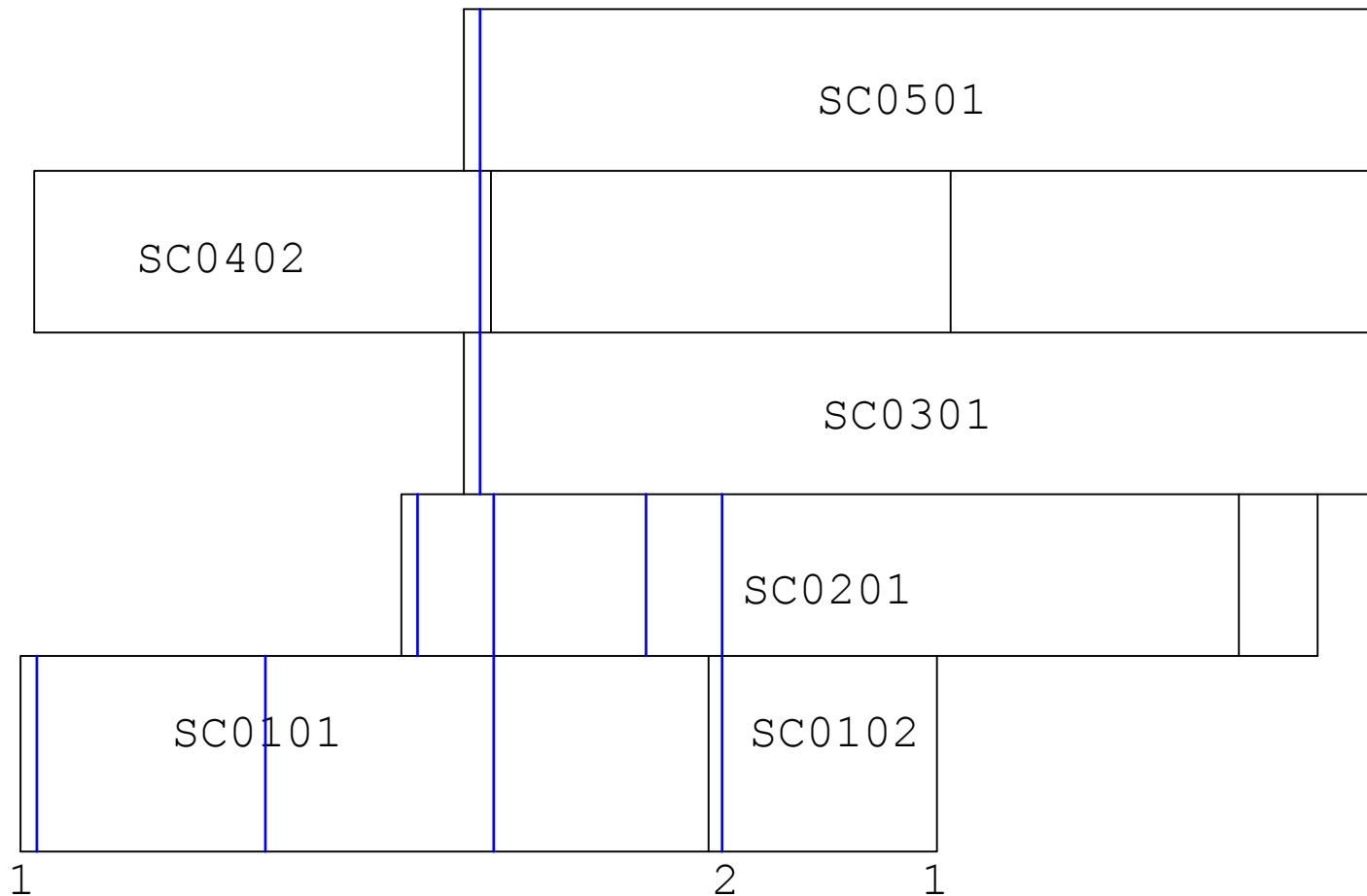
LEGEND

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VERSION 2019



SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #9
VERTICAL THICKNESS READINGS



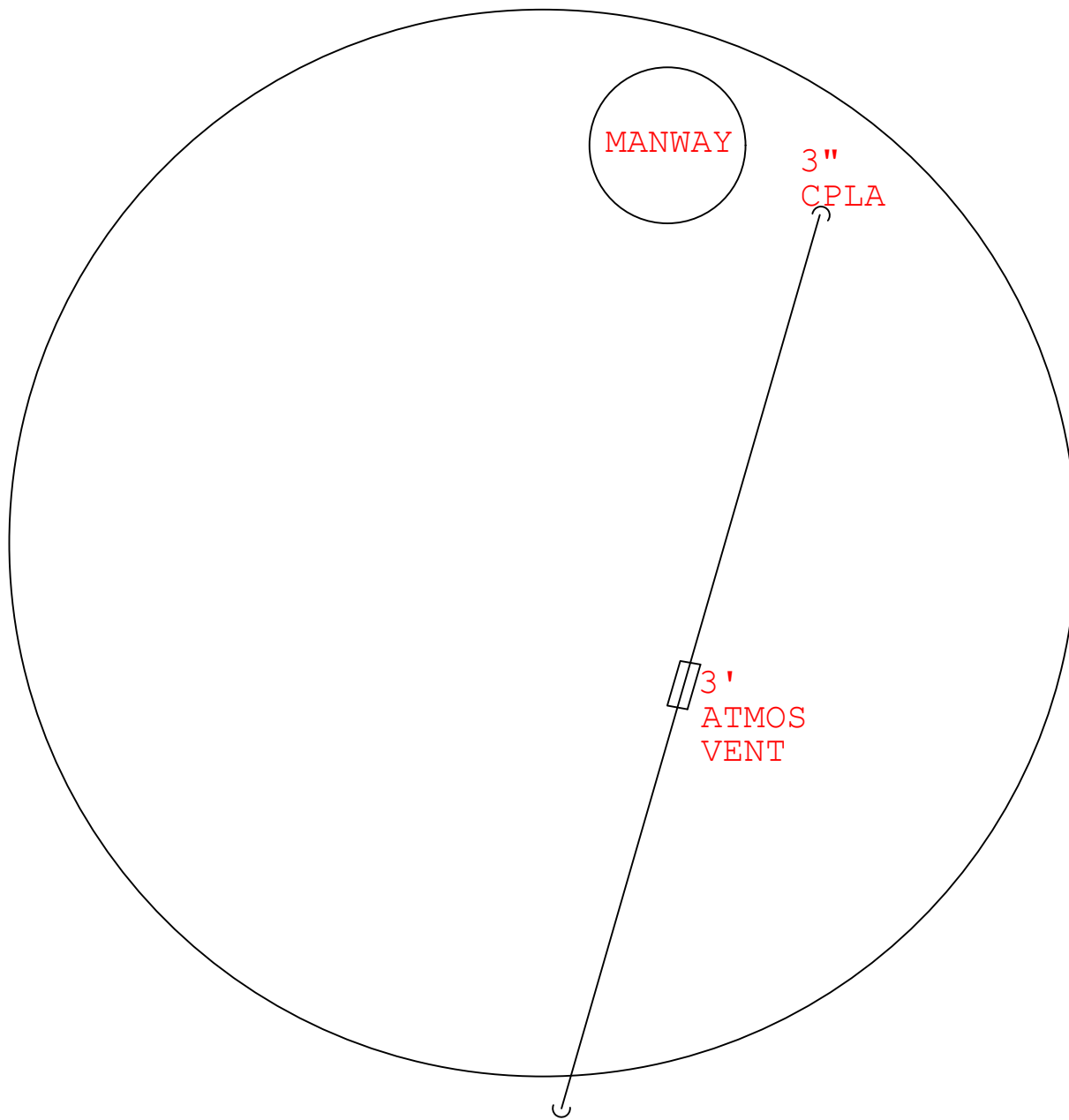
NOTES
SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND
|- INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT VERSION 2019



VERTICAL THICKNESS READINGS

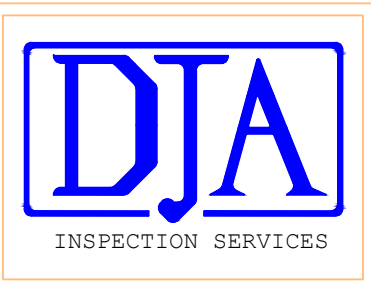


TRIUMVIRATE
DAVIE, FL
TANK #9
ROOF LAYOUT

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



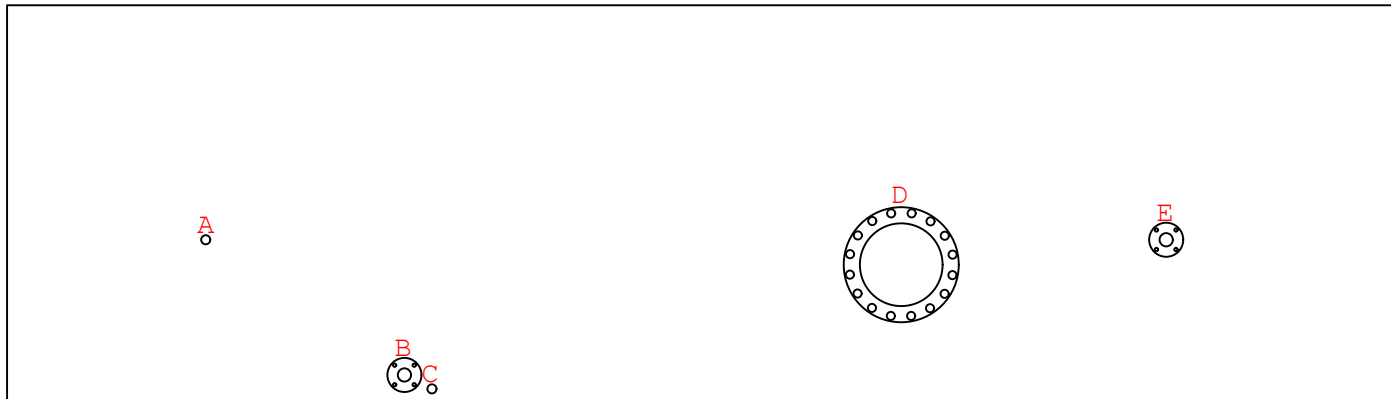
FIXED ROOF LAYOUT

TRIVIRATE
DAVIE, FL
TANK #9
TANK SHEET #SC0101

NOTES

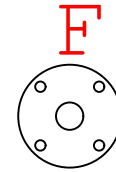
LEGEND

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VERSION 2019



NOZZLE LAYOUT

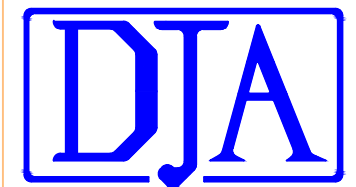
TRIVIRATE
DAVIE, FL
TANK #9
TANK SHEET #SC0102



NOTES

LEGEND

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VERSION 2019



INSPECTION SERVICES

NOZZLE LAYOUT

PHOTOS



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TANK #9



NOZZLE A



NOZZLE B & C



NOZZLE D



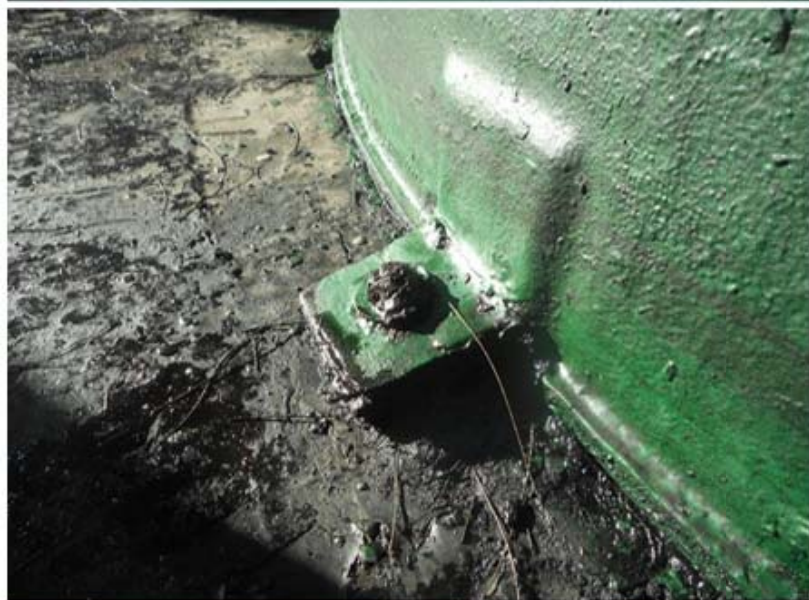
NOZZLE E



NOZZLE F



TANK ID



TYP TANK ANCHOR



TYP TANK BRACING / ANCHOR



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T9</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

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9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
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Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



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Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T10



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

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DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T10**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found no conditions of concern.

SHELL - The shell was visually inspected and thickness readings were taken. The shell horizontal weld seams are lap welded. The vertical weld seams are both lap and butt welded. The shell is coated with paint and the lower 1.5' has a fiberglass coating. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension was visually inspected. No conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The lower 1.5' of the shell is coated with fiberglass. The visual inspection found random areas where the paint is starting to peel. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T10**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T10	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1987
Tank Description :	BUTT & LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	2	COUPLING W/PLUG	SC0101	7.60	6.00							
B	2	COUPLING W/PLUG	SC0101	12.40	3.00							
C	18	MANWAY	SC0101	24.40	2.50	0.322	0.321	0.323	0.323		0.379	0.378
D	3	OUTLET	SC0102	4.20	3.00	0.213	0.215	0.214	0.209		0.971	
E	2	COUPLING W/PLUG	SC0102	7.10	0.15							
F	3	COUPLING W/PLUG	SC0102	7.50	0.50							
G												
H												
I												
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T10

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																						
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
SC-1		MAX = 277 MIN = 261 AVG = 270																																						
	1	277	275	275	274	272	271	272	272	271																														
	2	261	261	261	264																																			
	3																																							
	4																																							
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Shell Vertical Thickness Readings

Tank #: T10

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>						Readings in thousandths of an inch				
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 280 MIN: 253 AVG: 268.2										
	1			272	280	278	275	271	261			
	2			273	277	275	271	267	258			
	3			269	273	271	270	266	258			
	4			270	264	263	262	260	253			
SC-2		MAX: 196 MIN: 189 AVG: 193.7										
	1	189	195	194	196	193	195					
	2											
	3											
	4											
SC-3		MAX: 181 MIN: 180 AVG: 180.3										
	1	180	180	181	181	180	180					
	2											
	3											
	4											
SC-4		MAX: 200 MIN: 196 AVG: 198.3										
	1	200	200	199	198	197	196					
	2											
	3											
	4											
SC-5		MAX: 221 MIN: 193 AVG: 215.5										
	1	219	219	221	220	221	193					
	2											
	3											
	4											

DRAWINGS



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TRIUMVIRATE
DAVIE, FL
TANK #10
TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

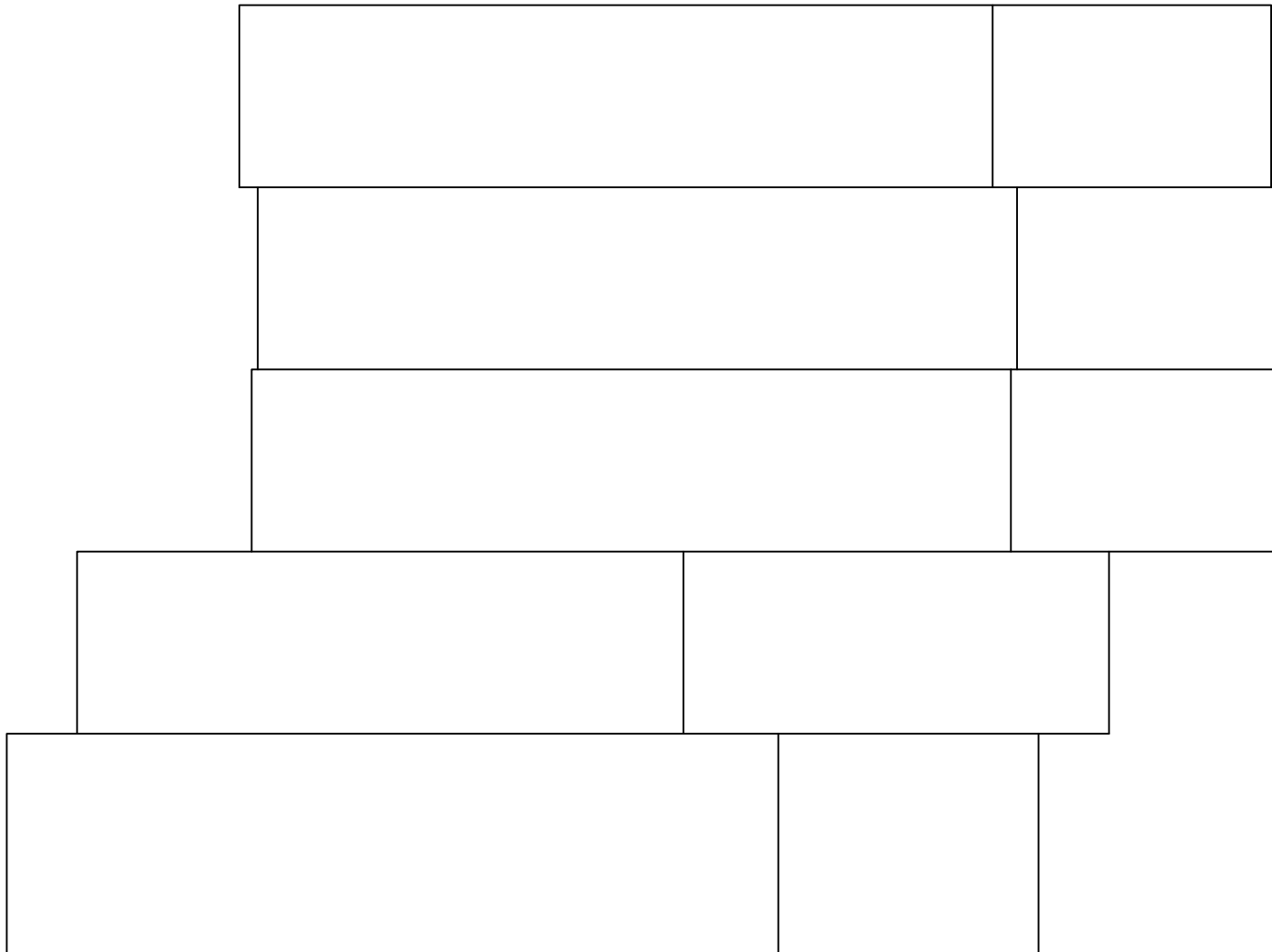
LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES



1

2

1

TANK LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #10
SHEET IDENTIFICATION

NOTES
SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



SC0501

SC0502

SC0401

SC0402

SC0301

SC0302

SC0201

SC0202

SC0101

SC0102

1

2

1

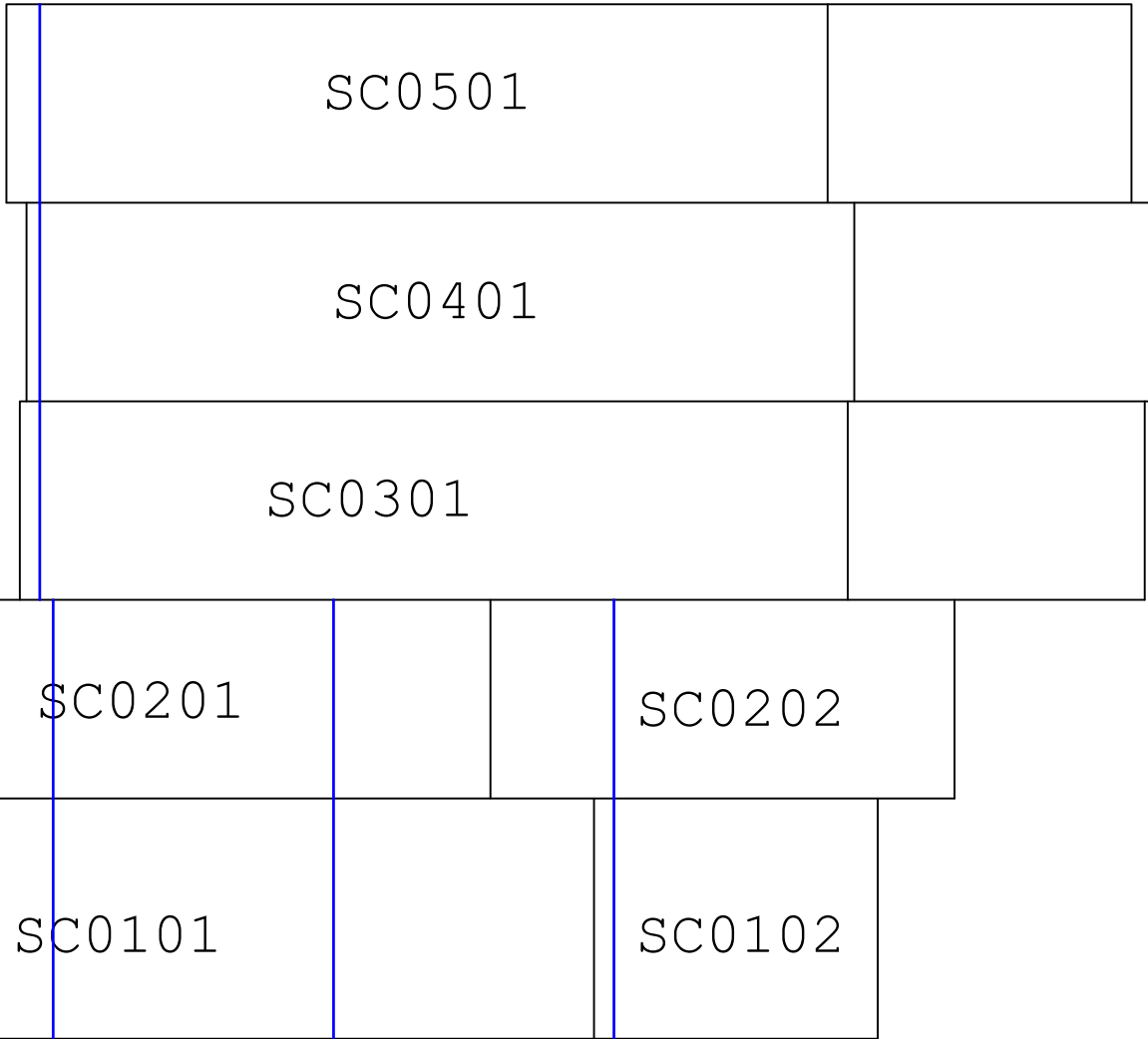
SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #10
VERTICAL THICKNESS READINGS

NOTES
SC### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

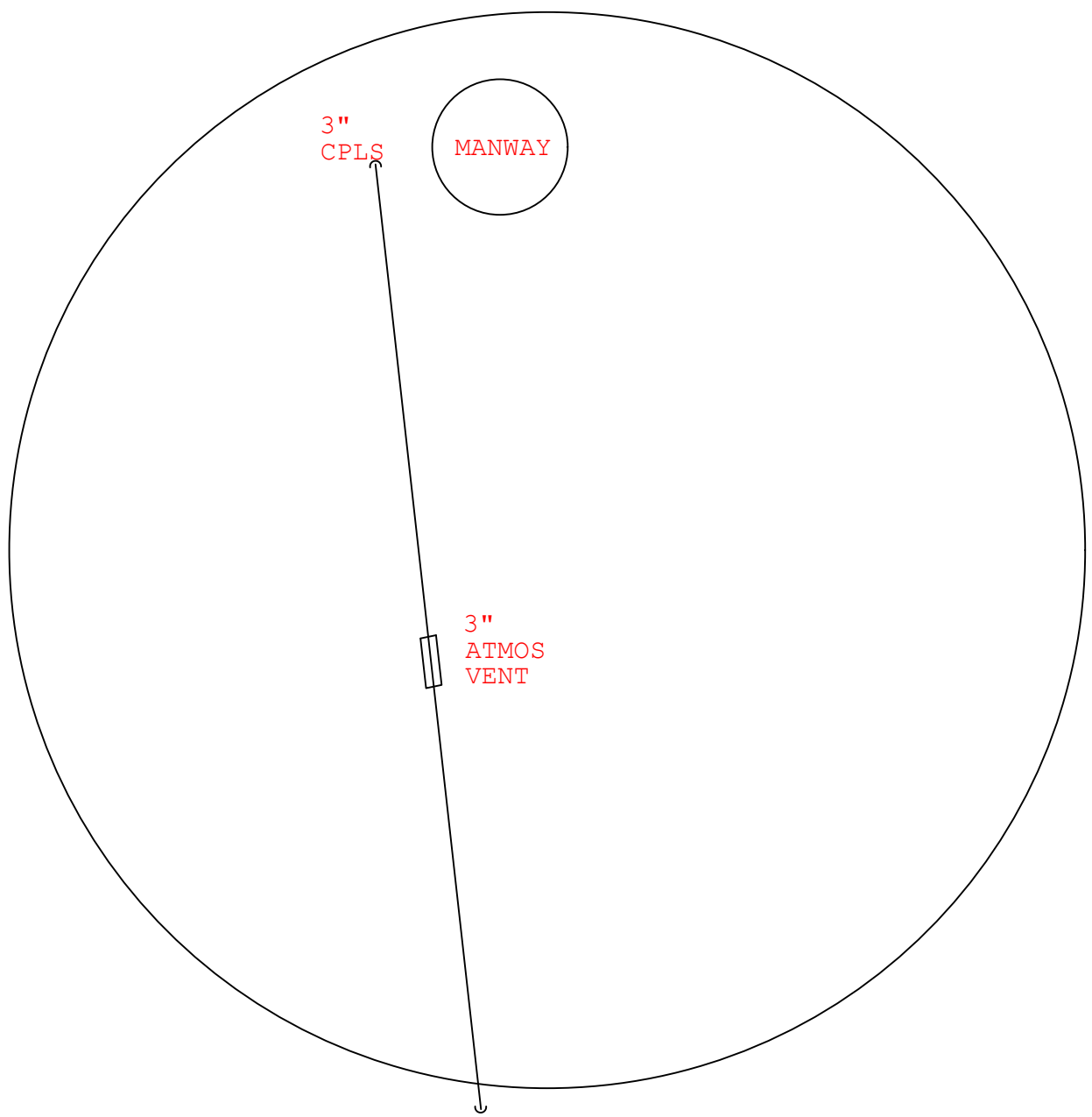
LEGEND
|- INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT VERSION 2019



1 2 1

VERTICAL THICKNESS READINGS



TRIUMVIRATE
DAVIE, FL
TANK #10
ROOF LAYOUT

NOTES

LEGEND

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VERSION 2019



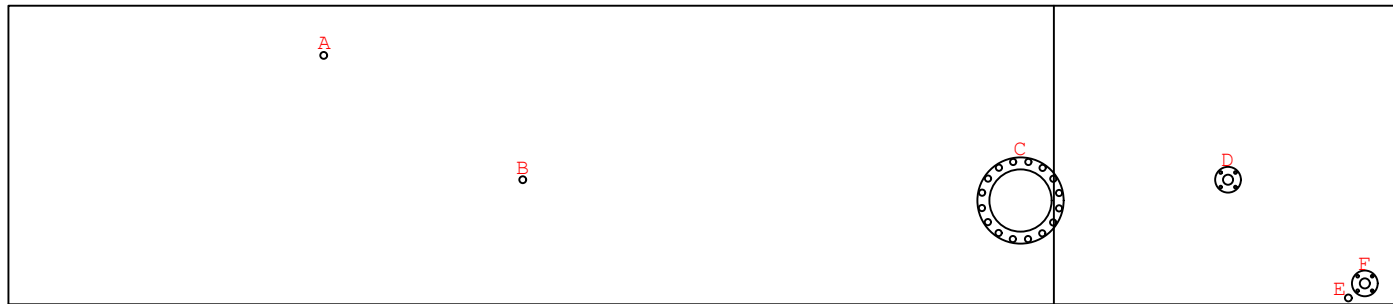
FIXED ROOF LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #10
TANK SHEET #SC0101-SC0102

NOTES

LEGEND

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VERSION 2019



NOZZLE LAYOUT

PHOTOS



MISSION STATEMENT

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TANK #10



NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D



NOZZLE E & F



TANK ID



TYP TANK ANCHOR



TYP TANK BRACING / ANCHOR



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T10</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Random areas where the paint is peeling.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

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Storage Tank Management & Inspection

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661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T11



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

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Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



MISSION STATEMENT

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**TRIUMVIRATE
DAVIE, FL
TANK #T11**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found no conditions of concern.

SHELL - The butt welded shell was visually inspected and thickness readings were taken. The shell is coated with paint and the lower 1.5' has a fiberglass coating. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - Not installed; the tank bottom is constructed with a bottom head. The visual inspection found no conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The lower 1.5' of the shell is coated with fiberglass. The visual inspection found random areas where the paint is starting to peel. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T11**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T11	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1987
Tank Description :	BUTT WELDED	Diameter :	10.50 feet
Current Product :	USED OIL	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	2	COUPLING W/PLUG	SC0101	1.50	2.90							
B	24	COUPLING W/PLUG	SC0101	14.00	2.30	0.208	0.217	0.211	0.212		0.374	0.374
C	3	MANWAY	SC0101	18.10	2.85							
D	1	OUTLET	SC0101	24.50	0.00							
E	3	COUPLING W/PLUG	SC0101	24.50	0.80							
F												
G												
H												
I												
J												
K												
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M												
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O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T11

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.==> Readings in thousandths of an inch																																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
SC-1		MAX = 247 MIN = 244 AVG = 245																																					
	1	245	244	244	245	245	245	244	244	244	245	247																											
	2	246	246																																				
	3																																						
	4																																						
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30																																							

Shell Vertical Thickness Readings

Tank #: T11

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

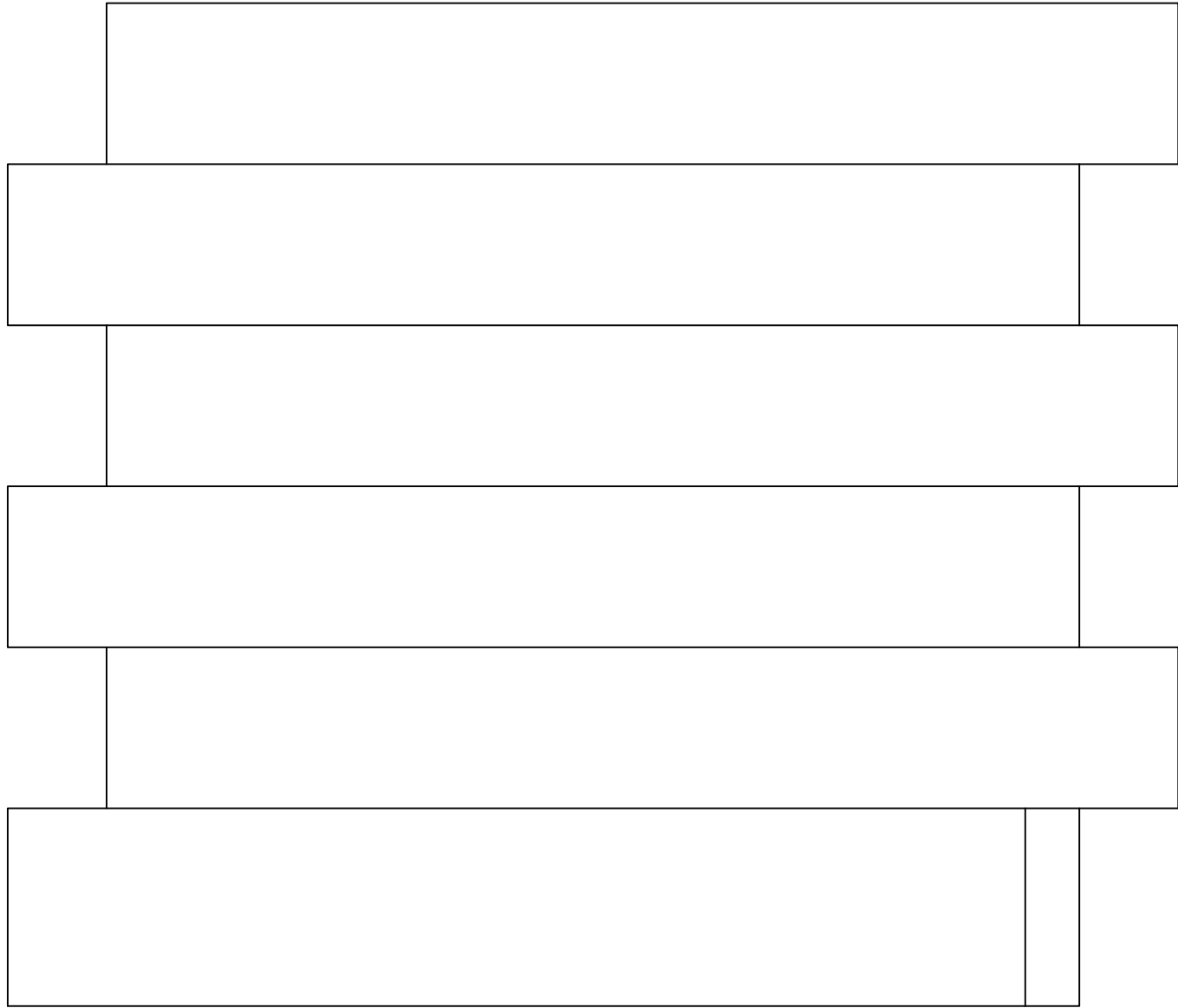
Shell Course	Drop No.	Point No. V - ==>						Readings in thousandths of an inch				
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 250 MIN: 244 AVG: 247.5										
	1	245	247	249	249	248	247	246				
	2	244	247	249	250	249	250	245				
	3	244	247	249	250	249	248	246				
	4	244	247	249	250	249	248	246				
SC-2		MAX: 186 MIN: 183 AVG: 185.3										
	1	183	186	186	185	186	186					
	2											
	3											
	4											
SC-3		MAX: 188 MIN: 184 AVG: 186.3										
	1	187	187	187	188	184	185					
	2											
	3											
	4											
SC-4		MAX: 187 MIN: 185 AVG: 185.8										
	1	186	185	187	185	186	186					
	2											
	3											
	4											
SC-5		MAX: 186 MIN: 184 AVG: 185.2										
	1	186	186	185	185	184						
	2											
	3											
	4											

DRAWINGS



MISSION STATEMENT

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1

2 1

TRIUMVIRATE
 DAVIE, FL
 TANK #11
 TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
 COURSE AND THE SHEET. THE
 FIRST TWO DIGIT NUMBER IS THE
 SHELL COURSE NUMBER AND THE
 FOLLOWING TWO DIGIT NUMBER
 IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
 VERSION 2019



INSPECTION SERVICES

TANK LAYOUT

TRIVIRATE

DAVIE, FL

TANK #11

SHEET IDENTIFICATION

SC0601

SC0501

SC0401

SC0301

SC0201

SC0101

SC0102

2 1

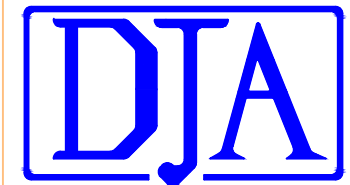
NOTES

SC### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND

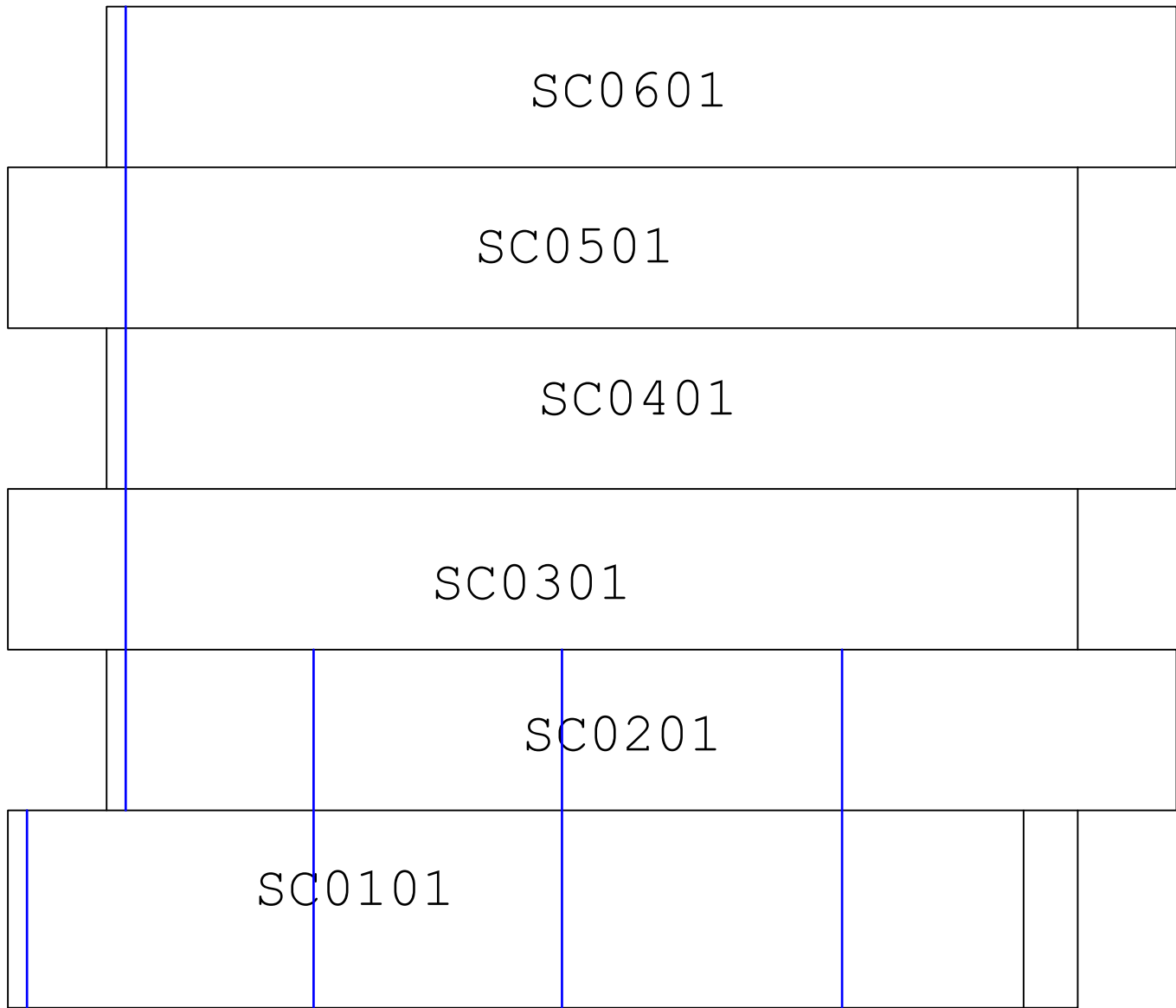
DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT VERSION 2019



INSPECTION SERVICES

SHEET IDENTIFICATION



TRIUMVIRATE
 DAVIE, FL
 TANK #11
 VERTICAL THICKNESS READINGS

NOTES
 SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

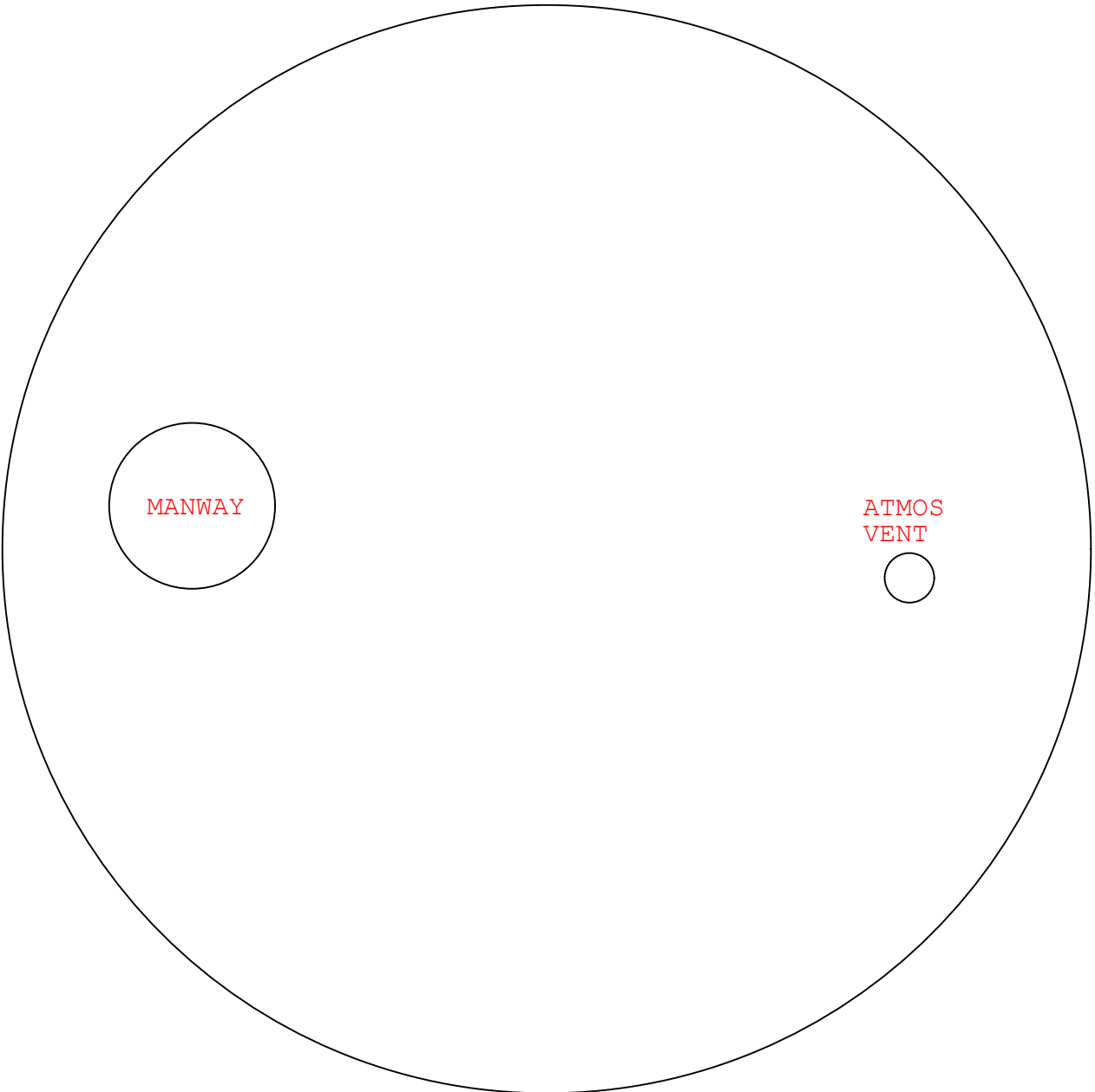
LEGEND
 | - INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP
 DRAWN USING AUTO CAD LT VERSION 2019



VERTICAL THICKNESS READINGS

2 1

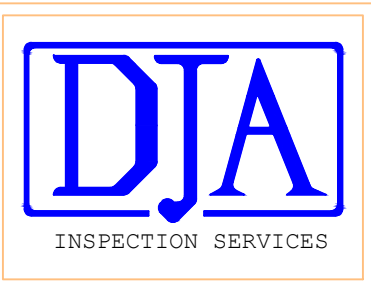


TRIVIRATE
DAVIE, FL
TANK #11
ROOF LAYOUT

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



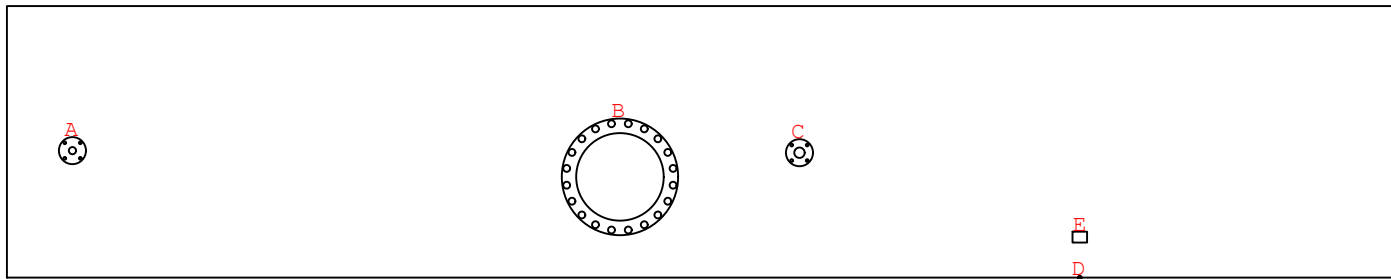
FIXED ROOF LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #11
TANK SHEET #SC0101

NOTES

LEGEND

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VERSION 2019



NOZZLE LAYOUT

PHOTOS



MISSION STATEMENT

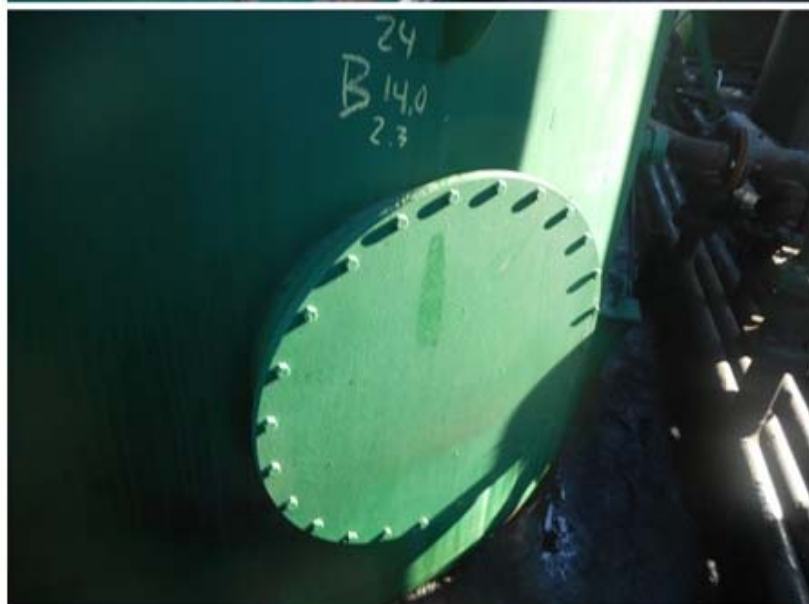
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TANK #11



NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D & E



TANK ID



TYP TANK ANCHOR



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T11</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Random areas where the paint is peeling.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

Tank bottom is constructed with a bottom head.

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

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D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T12



Date of In - Service Inspection: December 4, 2019



Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T12**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found no conditions of concern.

SHELL - The shell was visually inspected and thickness readings were taken. The shell horizontal weld seams are lap welded. The vertical weld seams are both lap and butt welded. The shell is coated with paint and the lower 1.5' has a fiberglass coating. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension was visually inspected. No conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The lower 1.5' of the shell is coated with fiberglass. The visual inspection found random areas where the paint is starting to peel. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T12**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



MISSION STATEMENT

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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T12	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	BUTT & LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T 2
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	3	OUTLET	SC0101	4.50	3.00	0.216	0.216	0.215	0.215		0.885	
B	2	COUPLING W/PLUG	SC0102	7.75	6.00							
C	1	20"X0.5" COUPLING W/VALVE	SC0102	12.40	3.00							
D	3	COUPLING W/PLUG	SC0102	16.10	0.50							
E	2	COUPLING W/PLUG	SC0102	16.60	0.25							
F	18	MANWAY	SC0102	24.40	2.40	0.369	0.370	0.368	0.369		0.375	0.374
G												
H												
I												
J												
K												
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R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T12

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
SC-1		MAX =		274		MIN =		260		AVG =		269																											
	1	263	265	260	261																																		
	2	270	271	271	272	273	274	274	268	271																													
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	30																																						

Shell Vertical Thickness Readings

Tank #: T12

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>						Readings in thousandths of an inch				
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 277 MIN: 253 AVG: 267.7										
	1			263	264	261	254	253	253			
	2			277	277	275	273	270	262			
	3			272	274	274	270	268	258			
	4			274	275	275	271	269	262			
SC-2		MAX: 198 MIN: 193 AVG: 196.2										
	1	193	196	197	196	198	197					
	2											
	3											
	4											
SC-3		MAX: 195 MIN: 191 AVG: 192.3										
	1	193	195	192	191	191	192					
	2											
	3											
	4											
SC-4		MAX: 183 MIN: 179 AVG: 181.5										
	1	183	182	183	182	179	180					
	2											
	3											
	4											
SC-5		MAX: 227 MIN: 225 AVG: 226.3										
	1	227	227	226	227	226	225					
	2											
	3											
	4											

DRAWINGS



MISSION STATEMENT

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TRIUMVIRATE
DAVIE, FL
TANK #12
TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

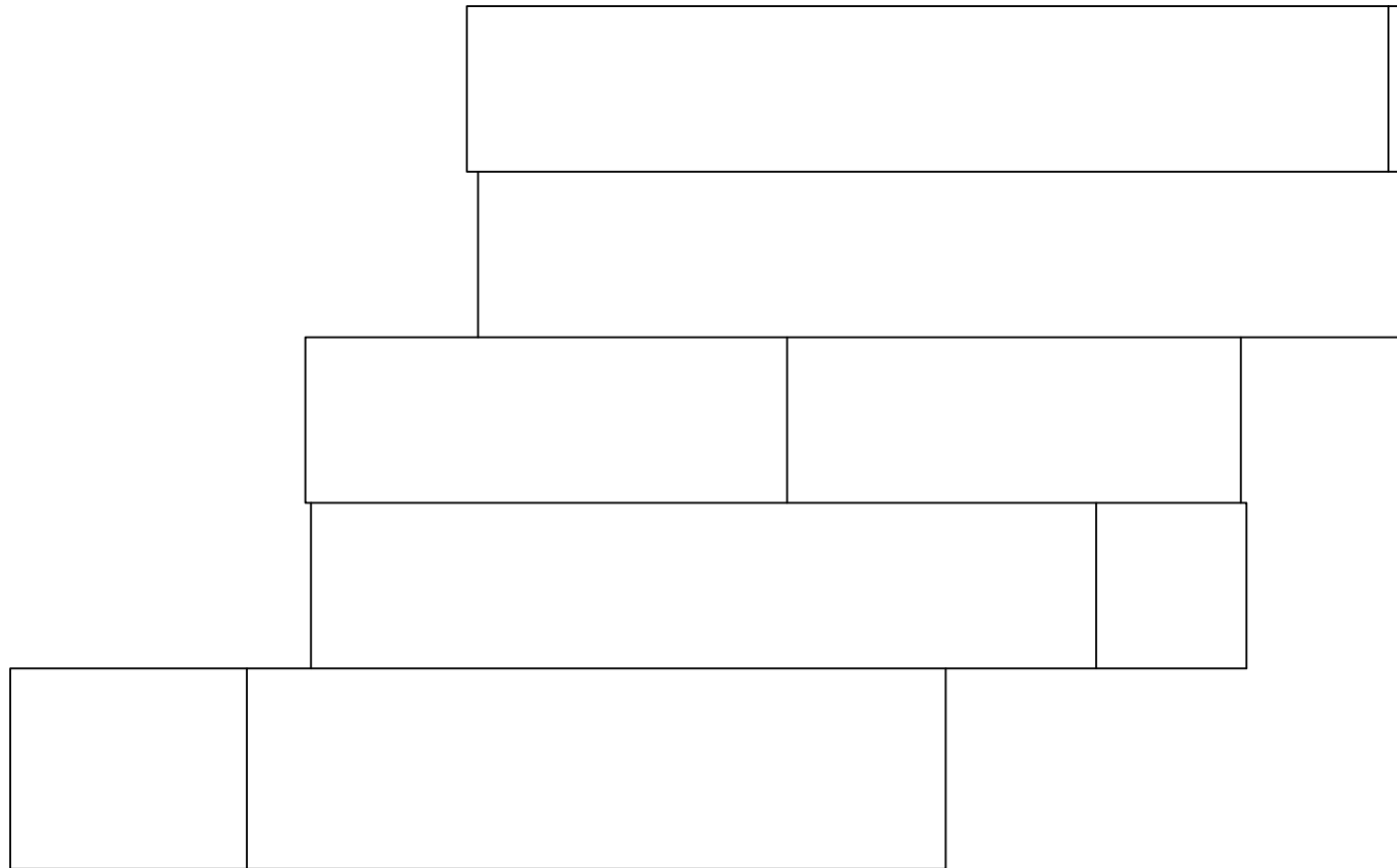
LEGEND

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VERSION 2019



INSPECTION SERVICES



1

2

1

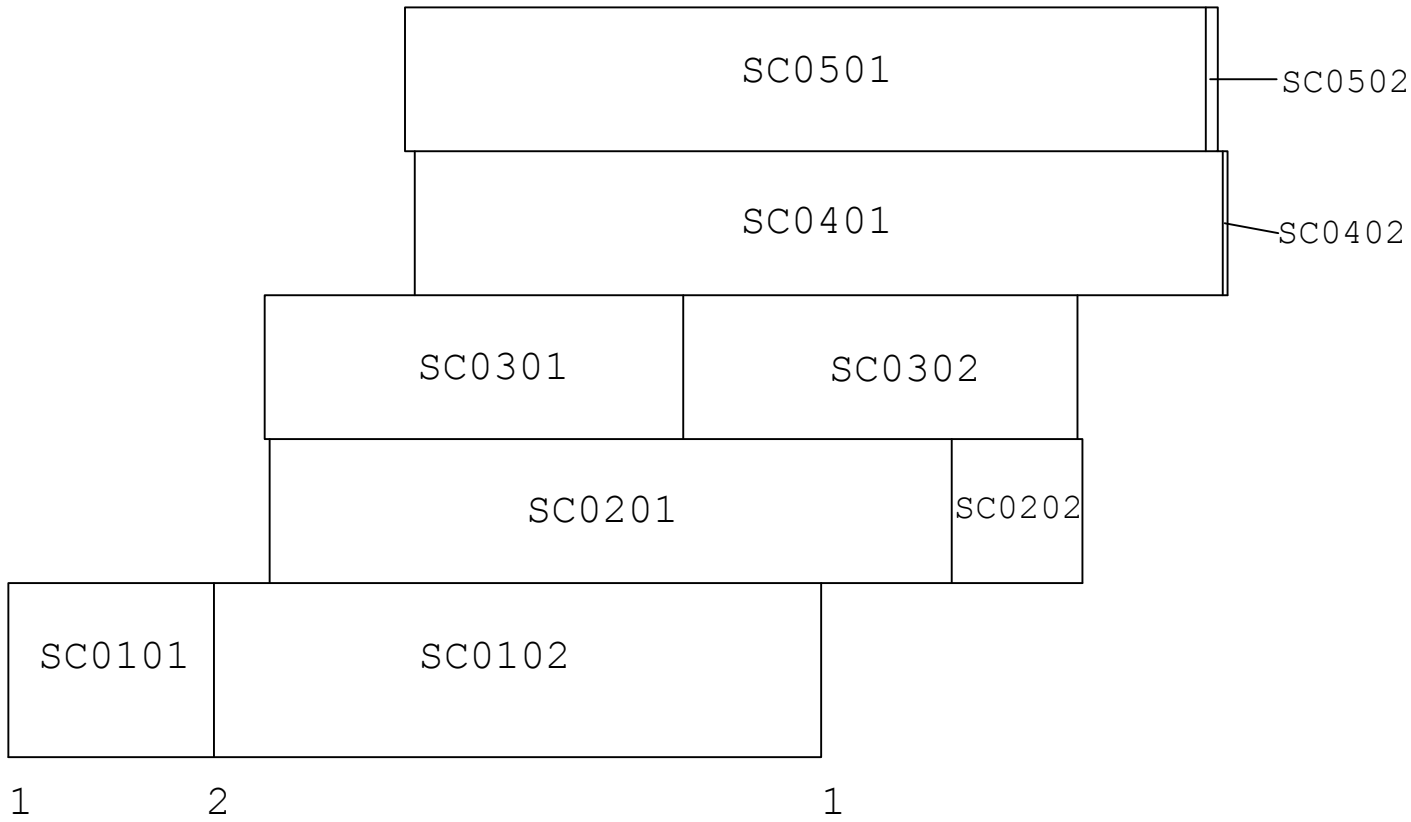
TANK LAYOUT

TRIVIRATE
DAVIE, FL
TANK #12
SHEET IDENTIFICATION

NOTES
SC### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
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FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

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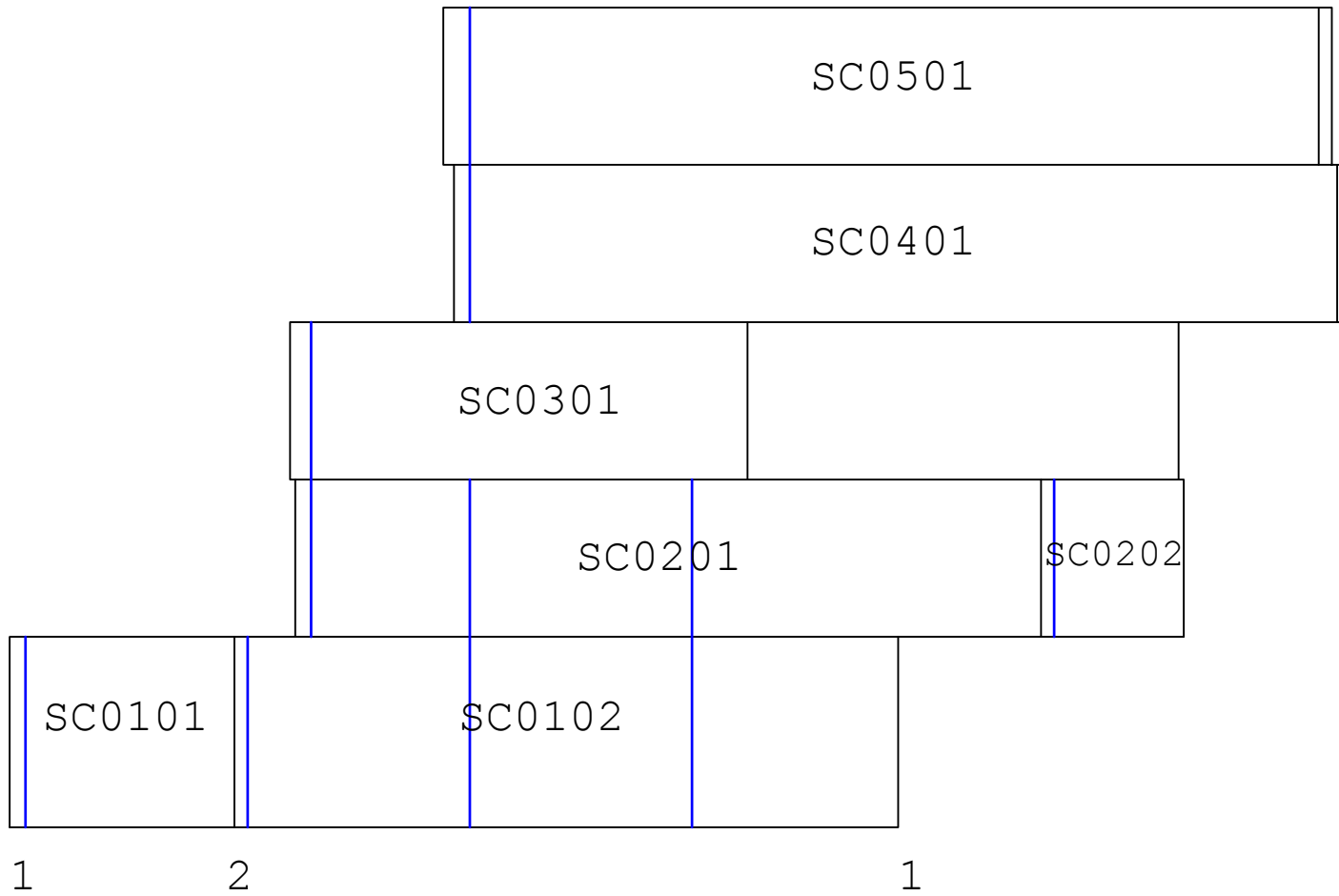
SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #12
VERTICAL THICKNESS READINGS

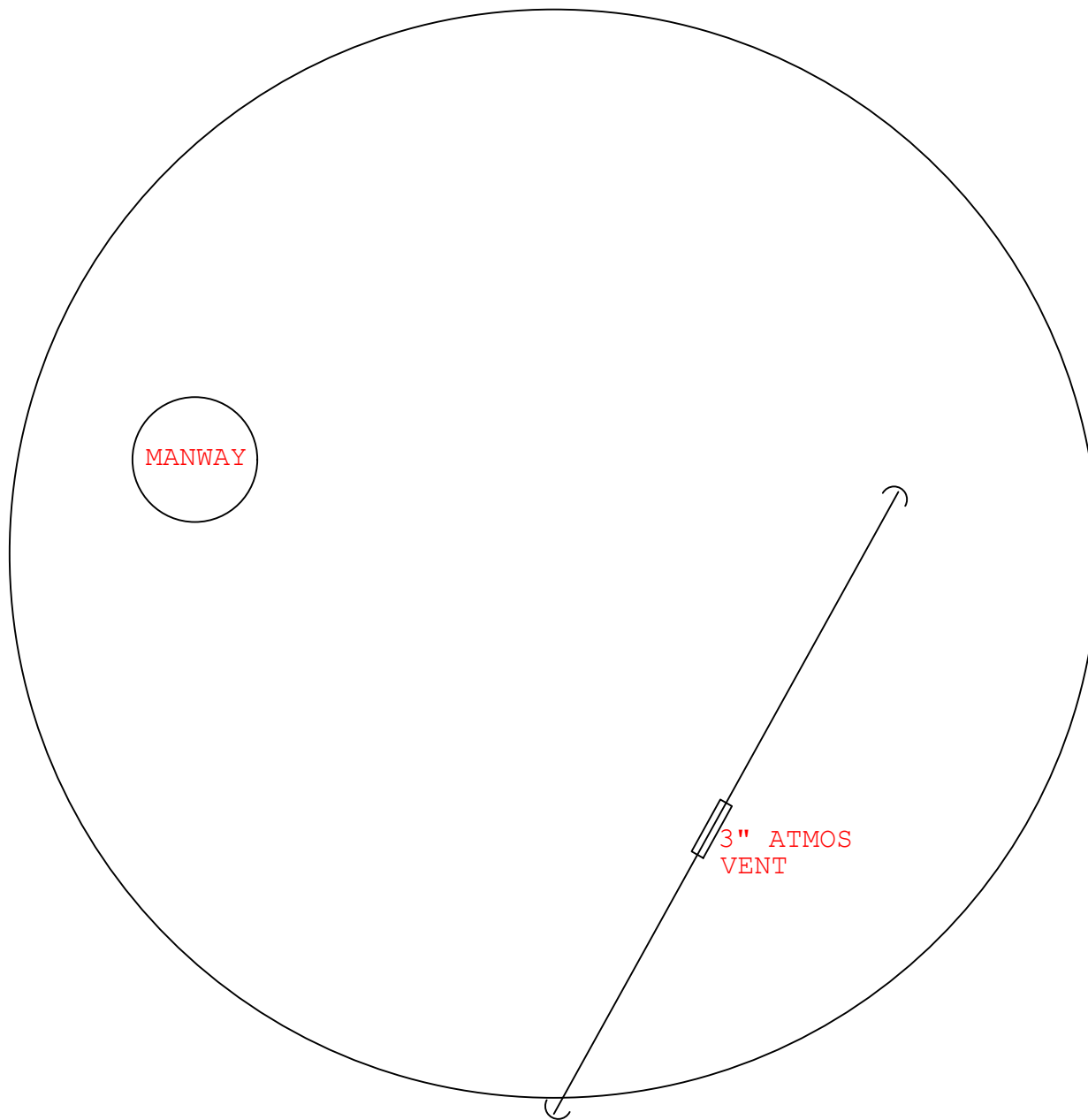
NOTES
SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND
|- INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

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VERTICAL THICKNESS READINGS



TRIUMVIRATE
DAVIE, FL
TANK #12
ROOF LAYOUT

NOTES

LEGEND

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VERSION 2019



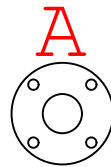
FIXED ROOF LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #12
TANK SHEET #SC0101

NOTES

LEGEND

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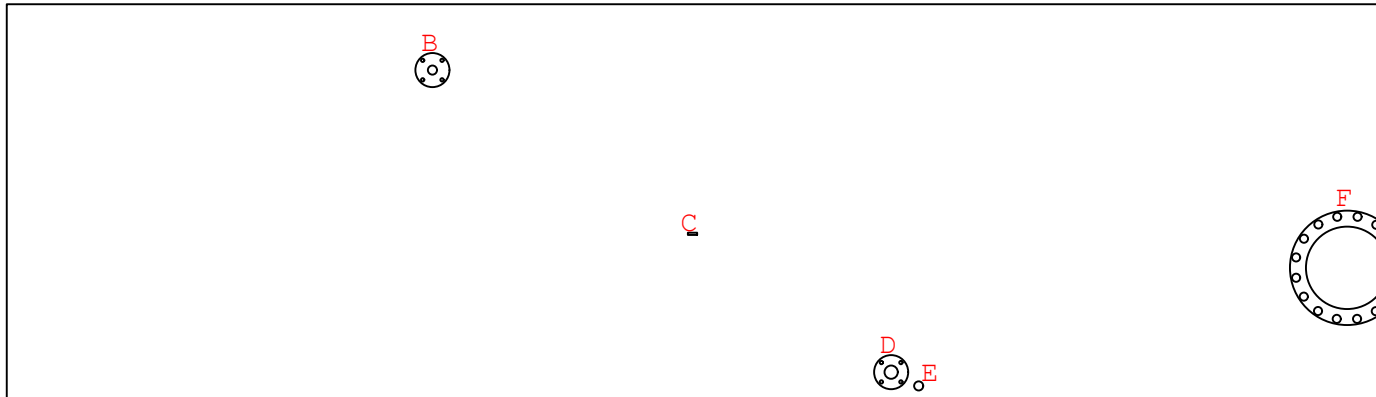
NOZZLE LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #12
TANK SHEET #SC0102

NOTES

LEGEND

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NOZZLE LAYOUT

PHOTOS



MISSION STATEMENT

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TANK #12



NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D & E



NOZZLE F



TANK ID



TYP TANK ANCHOR



TYP TANK BRACING / ANCHOR



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T12</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Random areas where the paint is peeling.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T13



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T13**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found no conditions of concern.

SHELL - The lap welded shell was visually inspected and thickness readings were taken. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The lap bottom plate extension is covered with fiberglass coating and could not be inspected. The fiberglass appears to be tightly adhered. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found random areas where the paint is starting to peel. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T13**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T13	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	1	SAMPLE	SC0101	0.50	1.80							
B	3	VALVE	SC0101	1.70	1.60	0.197	0.197	0.195	0.195		0.964	
C	20	MANWAY	SC0101	5.80	2.00	0.373	0.378	0.378	0.377		0.374	0.375
D	2	COUPLING W/PLUG	SC0101	10.00	0.50							
E	3	OUTLET	SC0101	22.30	1.10	0.214	0.211	0.214	0.211		0.920	
F	3	VALVE W/BF	SC0101	26.20	1.10	0.166	0.177	0.166	0.166			
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H												
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Shell Horizontal Thickness Readings

Tank #: T13

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.==> Readings in thousandths of an inch																																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
SC-1		MAX = 251 MIN = 240 AVG = 247																																					
	1	248	247	248	250	251	250	249	250	244	243	240	243																										
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Shell Vertical Thickness Readings

Tank #: T13

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>				Readings in thousandths of an inch								
		01	02	03	04	05	06	07	08	09	10	11		
SC-1		MAX: 252		MIN: 240		AVG: 248.9								
	1	240	248	252	250	251	250	248						
	2	246	250	251	251	252	251	251						
	3	242	248	250	250	250	250	249						
	4	247	247	247	249	250	250	248						
SC-2		MAX: 249		MIN: 242		AVG: 245.9								
	1	242	249	248	248	244	245	245	246					
	2													
	3													
	4													
SC-3		MAX: 257		MIN: 255		AVG: 255.9								
	1	256	257	255	255	255	256	257	256					
	2													
	3													
	4													
SC-4		MAX: 250		MIN: 247		AVG: 248.5								
	1	249	249	247	249	250	248	248	248					
	2													
	3													
	4													

DRAWINGS



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TRIUMVIRATE
DAVIE, FL
TANK #13
TANK LAYOUT

NOTES

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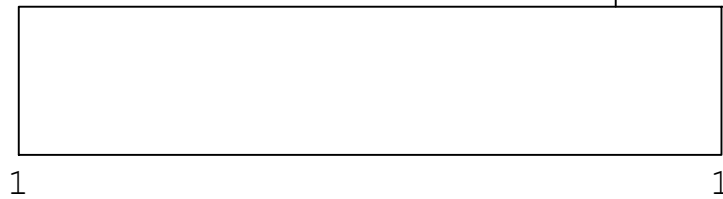
LEGEND

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TANK LAYOUT

TRIVIRATE
DAVIE, FL
TANK #13
SHEET IDENTIFICATION

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SC### - SIGNIFIES THE SHELL
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FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



SC0401

SC0301

SC0201

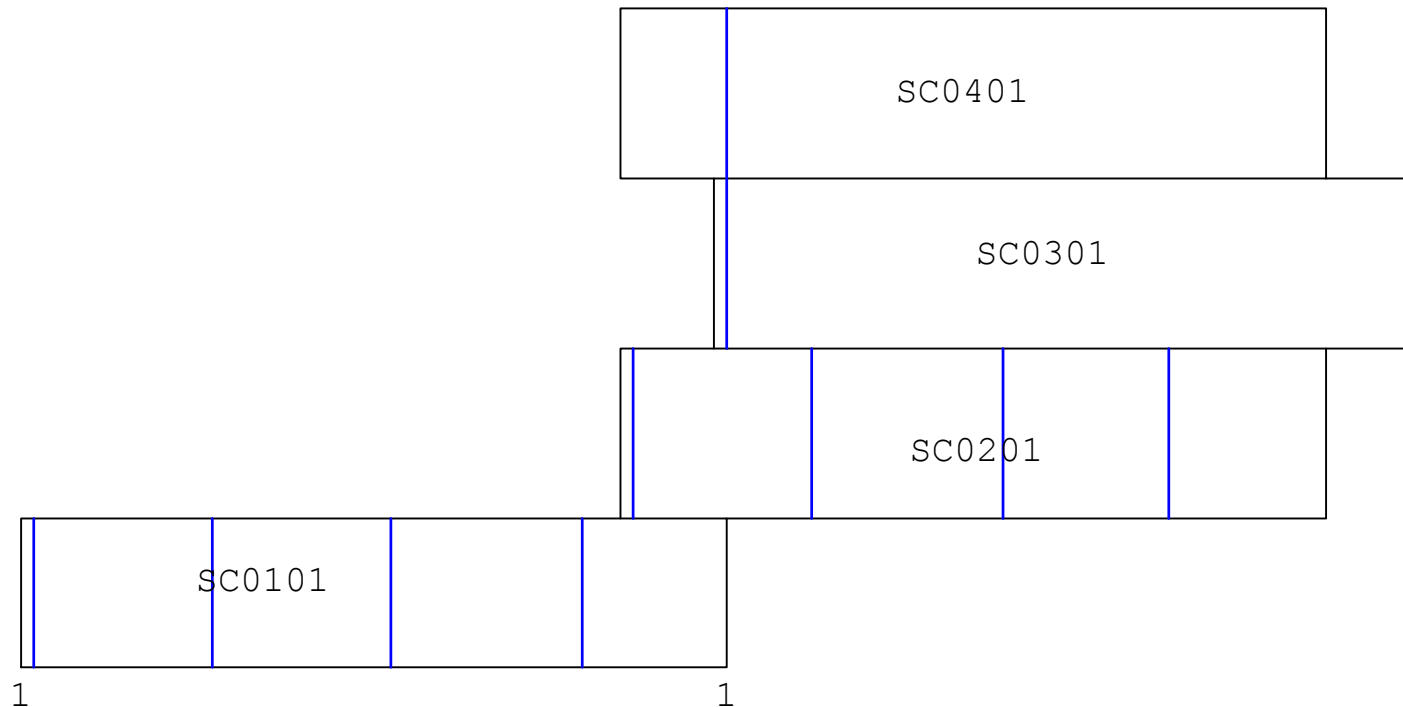
SC0101

1

1

SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #13
VERTICAL THICKNESS READINGS



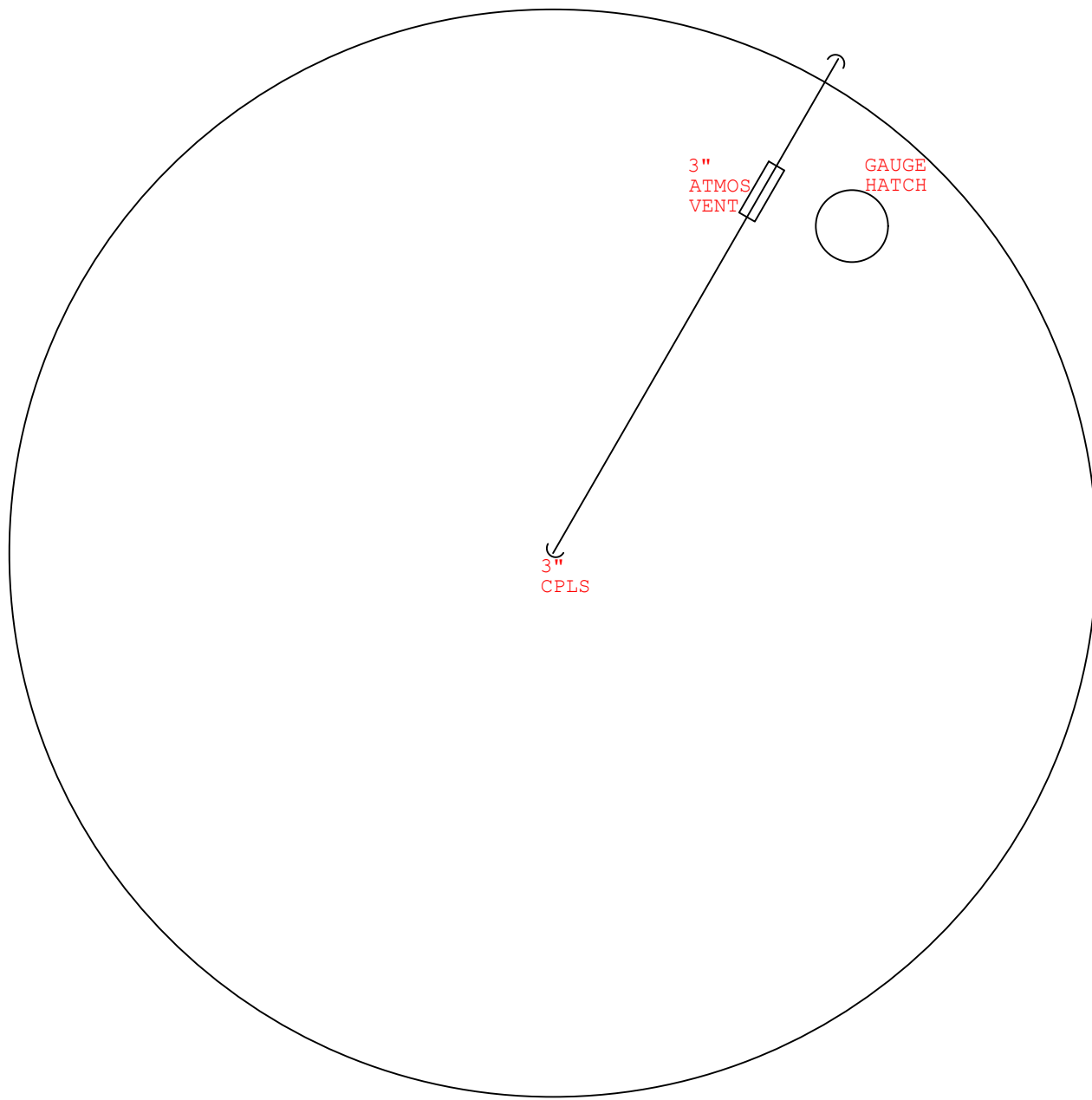
NOTES
SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND
|- INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

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VERSION 2019



VERTICAL THICKNESS READINGS



TRIUMVIRATE
DAVIE, FL
TANK #13
ROOF LAYOUT

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



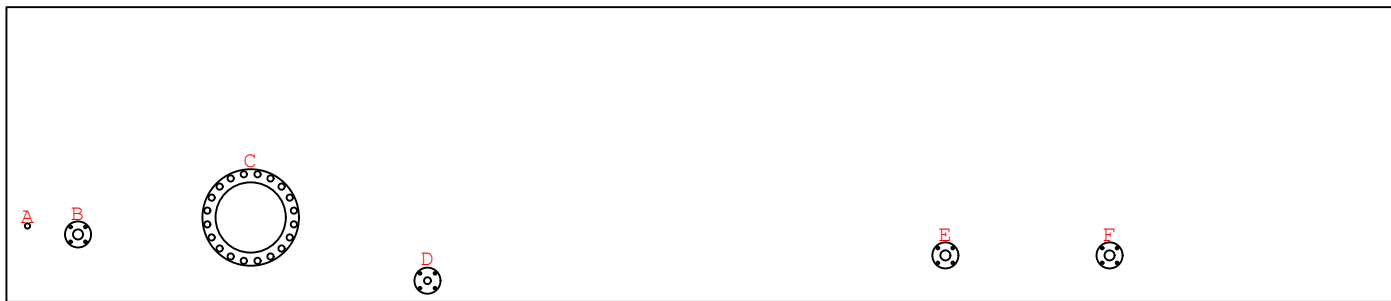
FIXED ROOF LAYOUT

TRIVIRATE
DAVIE, FL
TANK #13
TANK SHEET #SC0101

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

PHOTOS



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."



TANK #13



NOZZLE A & B



NOZZLE C



NOZZLE D



NOZZLE E



NOZZLE F



TANK ID



TANK ANCHOR & BPE COVERED WITH FIBERGLASS



TYP TANK BRACING / ANCHOR



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
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Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T13</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Random areas where the paint is peeling.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

**TRIUMVIRATE
DAVIE, FL
Tank #T14**



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T14**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found minor paint failure.

SHELL - The lap welded shell was visually inspected and thickness readings were taken. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension is covered with fiberglass coating and could not be inspected. The fiberglass appears to be tightly adhered. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found random areas where the paint is starting to peel. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T14**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T14	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL/OILY WATER	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	1	COUPLING W/PLUG	SC0101	4.60	0.40							
B	3	OUTLET	SC0101	6.90	1.10	0.197	0.196	0.197	0.196		0.918	
C	20	MANWAY	SC0101	27.60	2.00	0.372	0.371	0.370	0.370		0.370	0.372
D												
E												
F												
G												
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J												
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P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T14

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																						
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
SC-1		MAX = 251 MIN = 245 AVG = 248																																						
	1	248	250	250	246	247	246	245	250	251	247	246	246																											
	2																																							
	3																																							
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Shell Vertical Thickness Readings

Tank #: T14

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>				Readings in thousandths of an inch								
		01	02	03	04	05	06	07	08	09	10	11		
SC-1		MAX: 252		MIN: 245		AVG: 248.6								
	1	250	251	251	250	250	250	249						
	2	248	250	248	247	247	247	245						
	3	248	250	250	250	249	249	247						
	4	252	247	247	249	248	247	245						
SC-2		MAX: 187		MIN: 183		AVG: 185.4								
	1	183	184	185	186	187	186	186	186					
	2													
	3													
	4													
SC-3		MAX: 217		MIN: 212		AVG: 214.3								
	1	213	212	213	215	215	214	215	217					
	2													
	3													
	4													
SC-4		MAX: 220		MIN: 216		AVG: 217.8								
	1	220	218	218	218	217	217	218	216					
	2													
	3													
	4													

DRAWINGS



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TRIUMVIRATE
DAVIE, FL
TANK #14
TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

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VERSION 2019



INSPECTION SERVICES

1

1

TANK LAYOUT

TRIVIRATE
DAVIE, FL
TANK #14
SHEET IDENTIFICATION

SC0401

SC0301

SC0201

SC0101

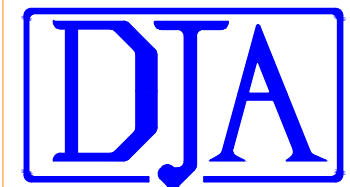
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LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES

SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #14
VERTICAL THICKNESS READINGS

NOTES

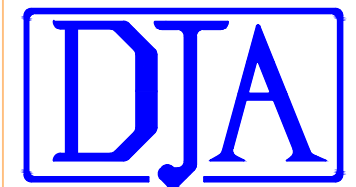
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LEGEND

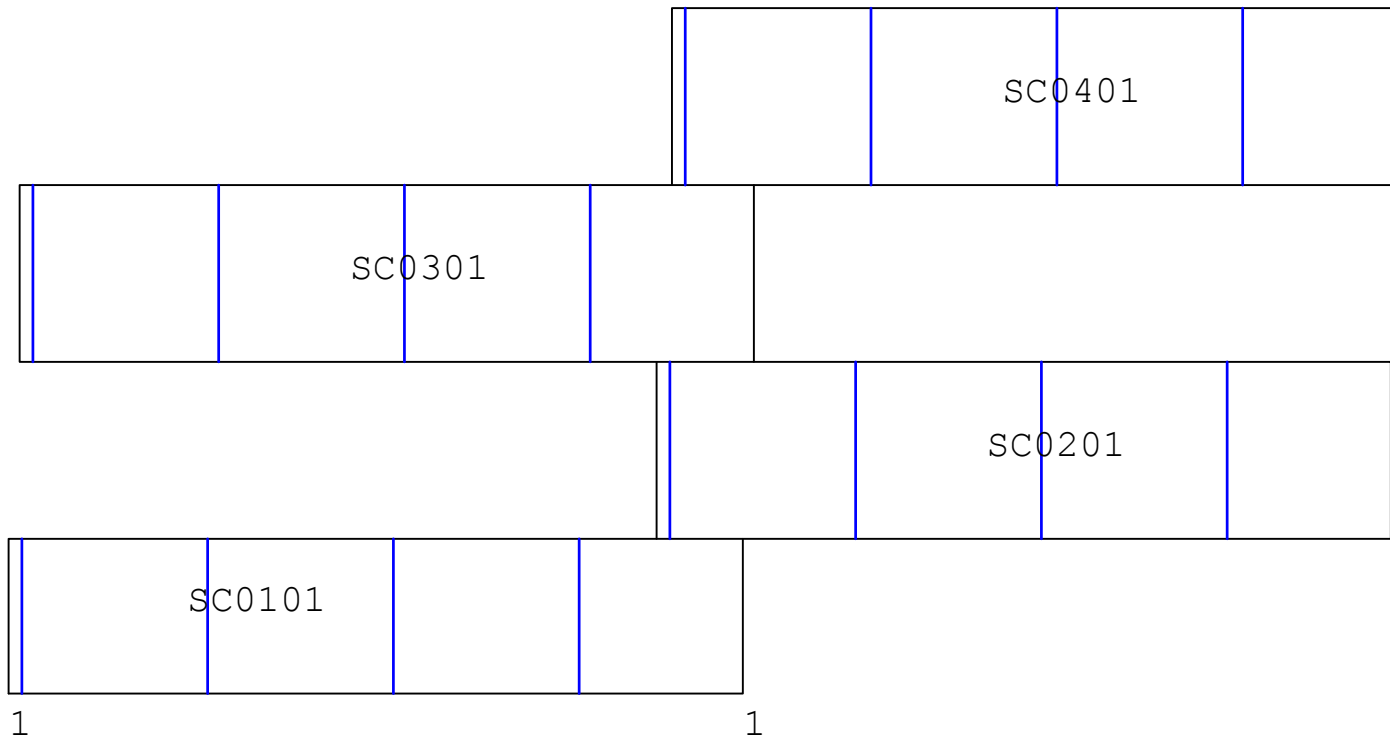
| - INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP

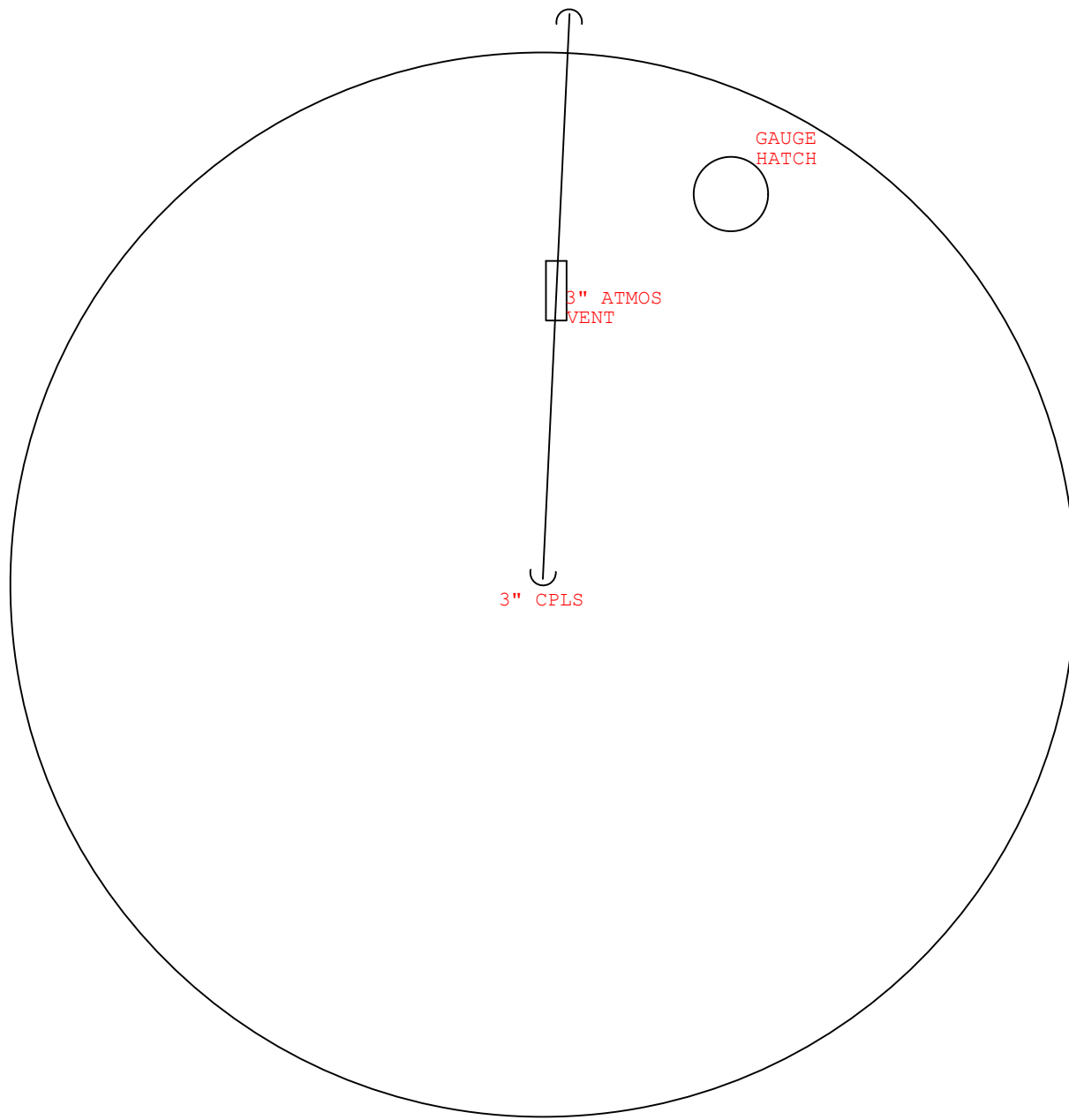
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VERSION 2019



INSPECTION SERVICES



VERTICAL THICKNESS READINGS

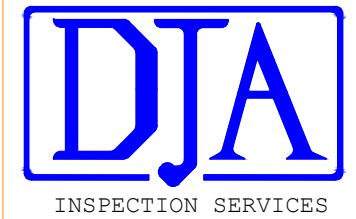


TRIVIRATE
DAVIE, FL
TANK #14
ROOF LAYOUT

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



FIXED ROOF LAYOUT

TRIVIRATE
DAVIE, FL
TANK #14
TANK SHEET #SC0101

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

PHOTOS



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TANK #14



NOZZLE A & B



NOZZLE C



TYP TANK ANCHOR AND BPE
COVER WITH FIBERGLASS



TANK ID



ROOF VIEW

CERTIFICATION



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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

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Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T14</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Random areas where the paint is peeling.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

“DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.”

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

**TRIUMVIRATE
DAVIE, FL
Tank #T15**



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T15**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found minor paint failure.

SHELL - The lap welded shell was visually inspected and thickness readings were taken. The visual inspection found numerous areas where the paint is failing. No other conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found some paint failure on the nozzles. No other conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension is covered with fiberglass coating and could not be inspected. The fiberglass appears to be tightly adhered. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found numerous areas where the paint is failing on the roof, shell and nozzles. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - There is no direct access to the roof of the tank.

**TRIUMVIRATE
DAVIE, FL
TANK #T15**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



MISSION STATEMENT

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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T15	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL/OILY WATER	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	3	VALVE	SC0101	0.50	1.50	0.194	0.195	0.194	0.193		0.978	
B	20	MANWAY	SC0101	6.50	2.00	0.382	0.382	0.381	0.378		0.379	0.378
C	2	COUPLING W/PLUG	SC0101	10.80	0.25							
D	1	SAMPLE	SC0101	20.40	3.80							
E	3	OUTLET	SC0101	23.40	1.00						1.031	
F												
G												
H												
I												
J												
K												
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P												
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R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T15

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.==> Readings in thousandths of an inch																																						
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
SC-1		MAX = 247 MIN = 238 AVG = 243																																						
	1	240	241	243	243	247	245	246	238	242	243	242	240																											
	2																																							
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Shell Vertical Thickness Readings

Tank #: T15

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>				Readings in thousandths of an inch								
		01	02	03	04	05	06	07	08	09	10	11		
SC-1		MAX: 249		MIN: 239		AVG: 245.3								
	1	240	246	247	248	246	244	243						
	2	239	242	244	248	245	244	243						
	3	245	246	249	248	247	246	242						
	4	248	249	246	247	247	246	243						
SC-2		MAX: 245		MIN: 239		AVG: 243.1								
	1	245	239	240	242	244	245	245	245					
	2													
	3													
	4													
SC-3		MAX: 247		MIN: 242		AVG: 245.3								
	1	245	245	245	242	247	247	245	246					
	2													
	3													
	4													
SC-4		MAX: 248		MIN: 246		AVG: 247.1								
	1	247	247	248	246	247	247	247	248					
	2													
	3													
	4													

DRAWINGS



MISSION STATEMENT

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TRIVIRATE
DAVIE, FL
TANK #15
TANK LAYOUT

NOTES

SC### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES



1

1

TANK LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #15
SHEET IDENTIFICATION

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES

SC0401

SC0301

SC0201

SC0101

1

1

SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #15
VERTICAL THICKNESS READINGS

NOTES

SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND

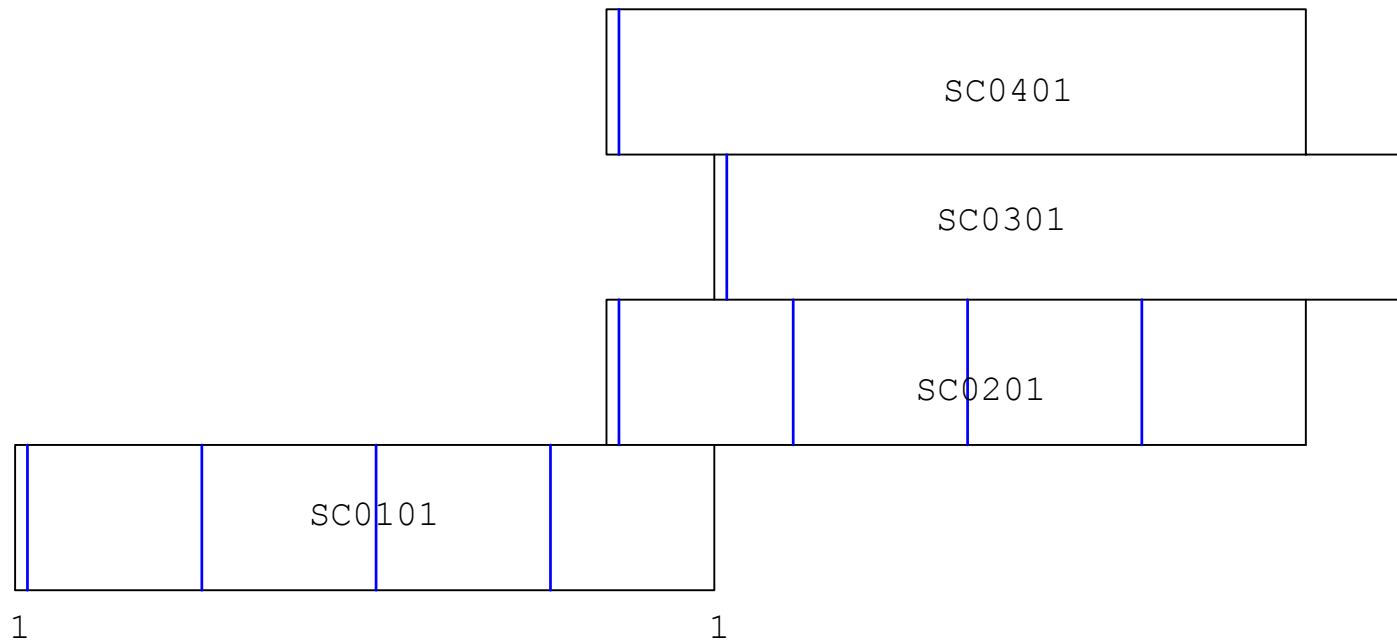
| - INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP

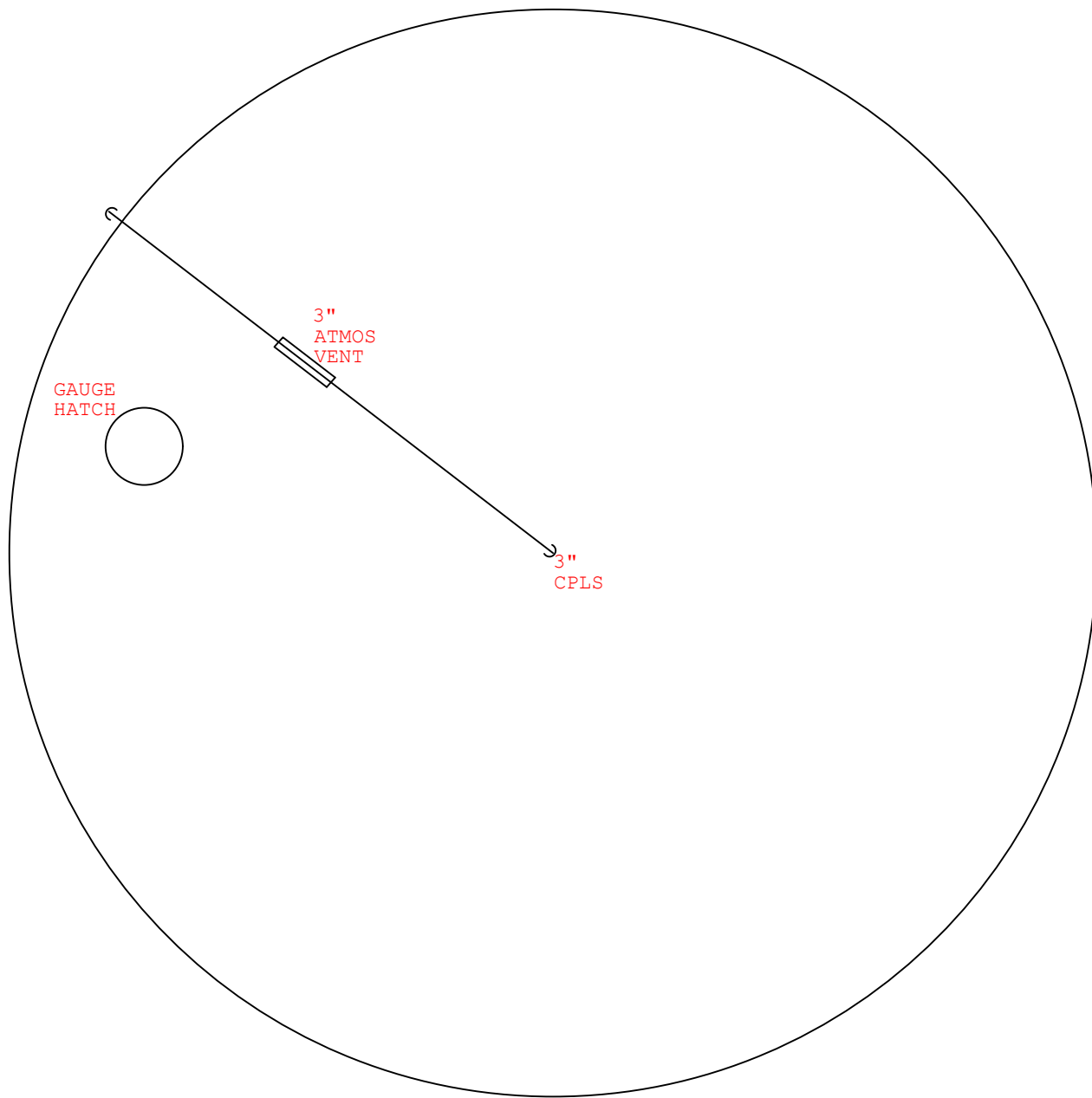
DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES



VERTICAL THICKNESS READINGS



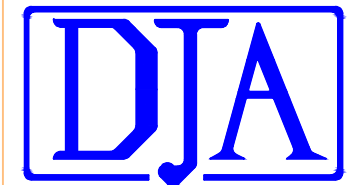
TRIUMVIRATE
DAVIE, FL
TANK #15
ROOF LAYOUT

NOTES

LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES

FIXED ROOF LAYOUT

TRIVIRATE
HARLEM STATION, IL
TANK #1
TANK SHEET #SC0101

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

PHOTOS



MISSION STATEMENT

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TANK #15



NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D



NOZZLE E



TANK ID



TYP TANK ANCHOR AND BPE COVERED WITH FIBERGLASS



TYP TANK BRACING / ANCHOR



PAIN T FAILURE



PAIN T FAILURE- BLISTER



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: _____	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T15</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Numerous areas where the paint is failing.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

“DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.”

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

**TRIUMVIRATE
DAVIE, FL
Tank #T16**



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

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DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T16**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found minor paint failure.

SHELL - The lap welded shell was visually inspected and thickness readings were taken. The visual inspection found numerous areas where the paint is failing. No other conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found some paint failure on the nozzles. No other conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension is covered with fiberglass coating and could not be inspected. The fiberglass appears to be tightly adhered. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found numerous areas where the paint is failing on the roof, shell and nozzles. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank is equipped with a fixed access ladder and safety cage. There is a platform on the top shell course. The visual inspection found no conditions of concern.

**TRIUMVIRATE
DAVIE, FL
TANK #T16**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



MISSION STATEMENT

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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T16	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL/OILY WATER	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	20	MANWAY	SC0101	5.90	2.00	0.385	0.379	0.382	0.382		0.383	0.382
B	2	OUTLET	SC0101	10.30	0.10							
C	1	SAMPLE	SC0101	14.30	3.00							
D	3	OUTLET	SC0101	23.10	1.10						0.926	
E												
F												
G												
H												
I												
J												
K												
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O												
P												
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T16

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.==> Readings in thousandths of an inch																																						
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35				
SC-1		MAX = 238 MIN = 228 AVG = 234																																						
	1	235	228	236	238	236	234	229	233	233	232	235	236																											
	2																																							
	3																																							
	4																																							
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30																																								

Shell Vertical Thickness Readings

Tank #: T16

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>										
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 239 MIN: 223 AVG: 232										
	1	239	238	234	233	230	227	223				
	2	236	231	232	237	237	228	236				
	3	233	231	230	231	232	238	228				
	4	230	229	230	230	227	233	232				
SC-2		MAX: 237 MIN: 229 AVG: 233.5										
	1	232	235	235	236	235	236	235	233			
	2	237	231	231	234	232	232	234	232			
	3	237	237	237	229	230	236	236	236			
	4	231	235	230	232	233	229	233	231			
SC-3		MAX: 236 MIN: 228 AVG: 232.6										
	1	235	235	236	235	234	235	231	234			
	2	233	236	234	233	233	231	231	230			
	3	236	231	231	231	232	233	235	235			
	4	233	231	234	230	232	228	228	228			
SC-4		MAX: 237 MIN: 225 AVG: 232.3										
	1	229	230	229	225	233	233	235	232			
	2	230	229	228	231	235	235	232	232			
	3	235	233	233	235	235	233	235	233			
	4	232	232	231	228	233	234	237	236			

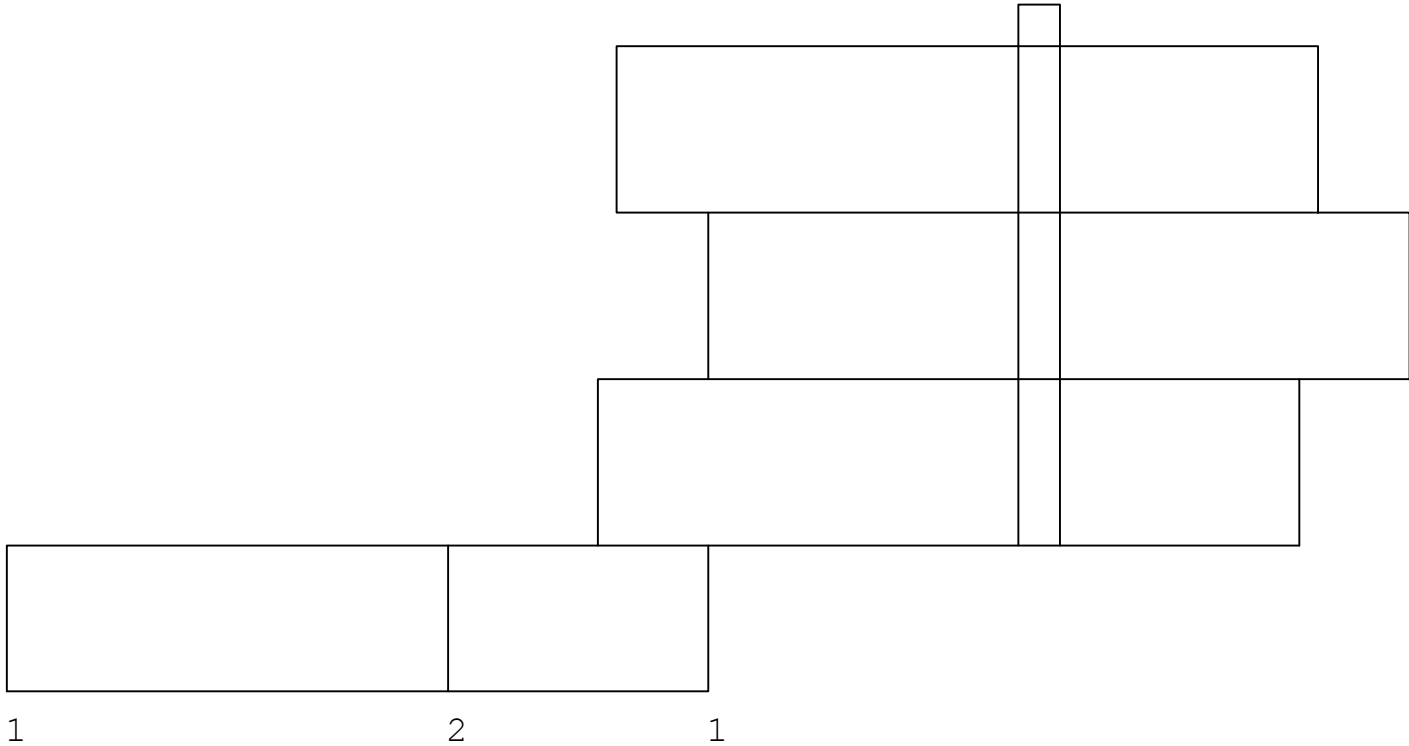
DRAWINGS



MISSION STATEMENT

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LADDER



TANK LAYOUT

TRIVIRATE
DAVIE, FL
TANK #16
TANK LAYOUT

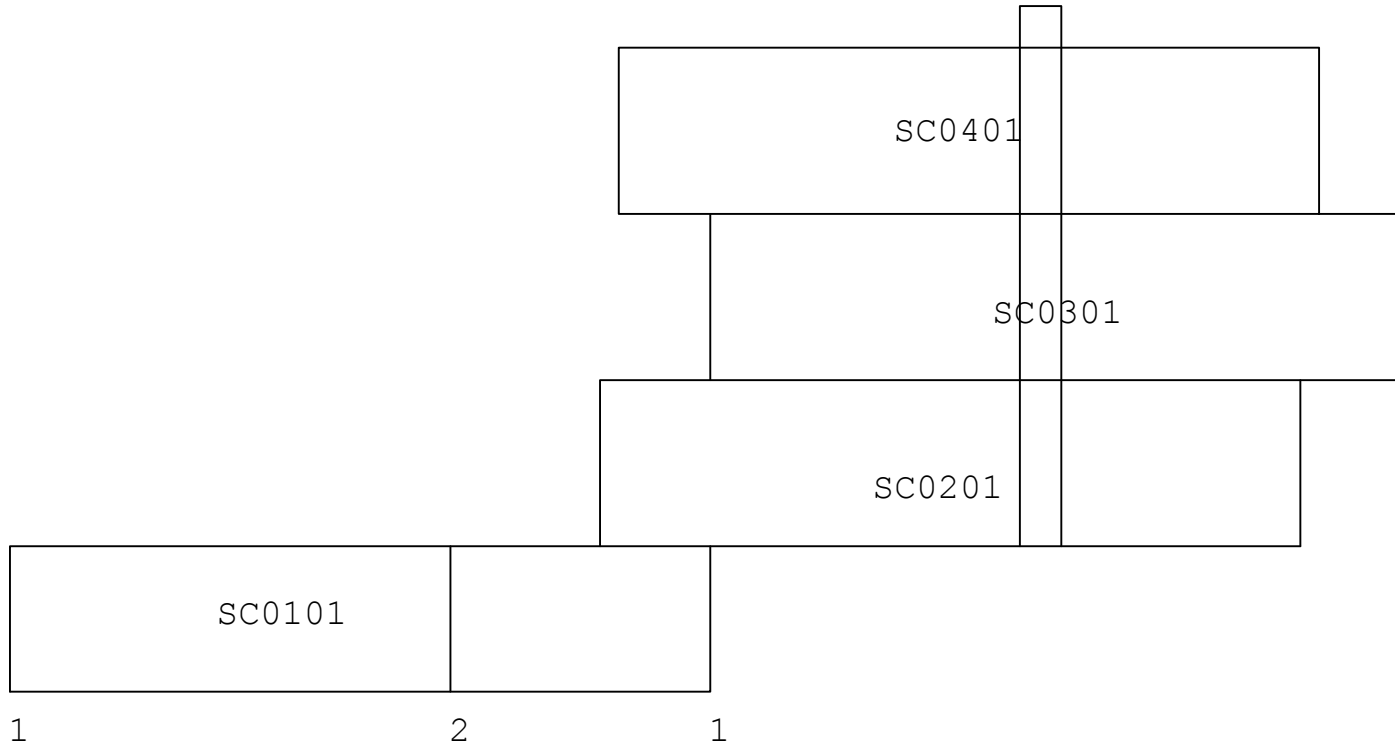
NOTES
SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



LADDER



TRIUMVIRATE
DAVIE, FL
TANK #16
SHEET IDENTIFICATION

NOTES
SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

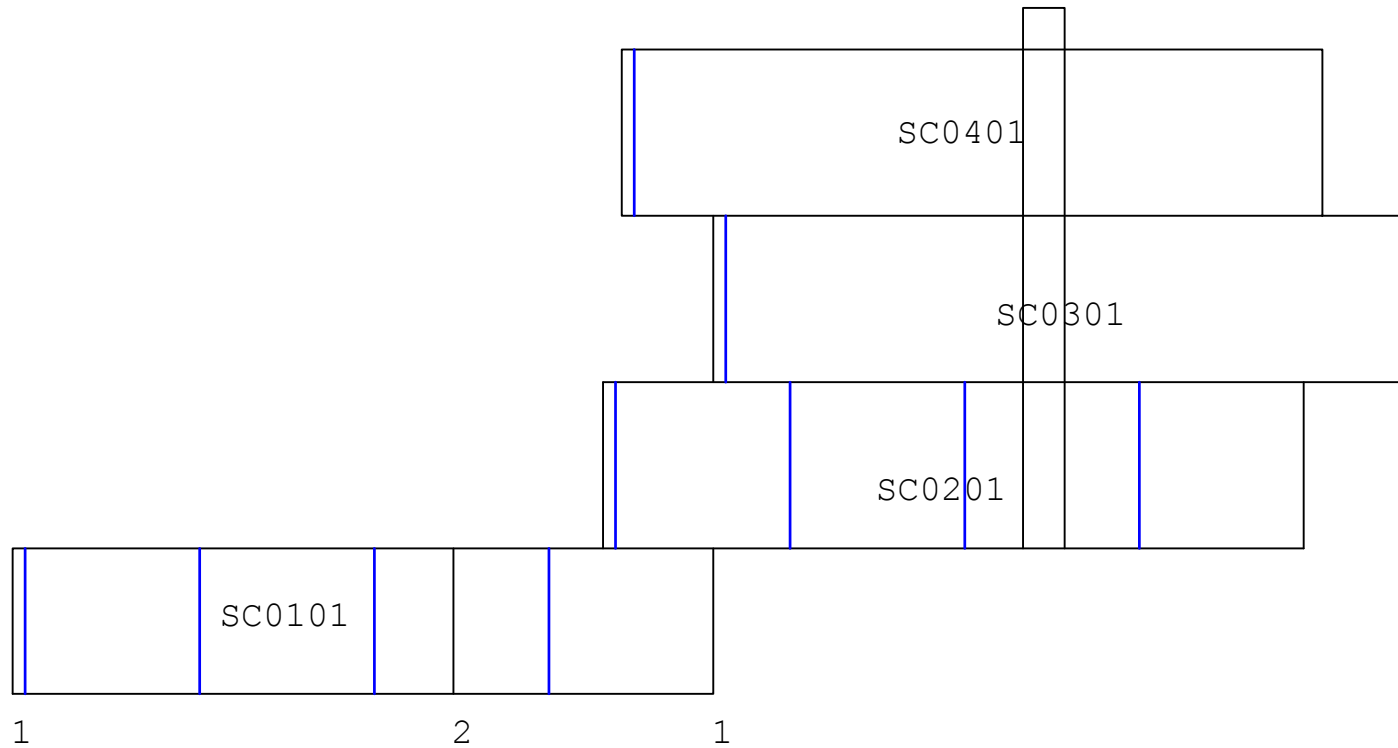
DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #16
VERTICAL THICKNESS READINGS

LADDER



NOTES

SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

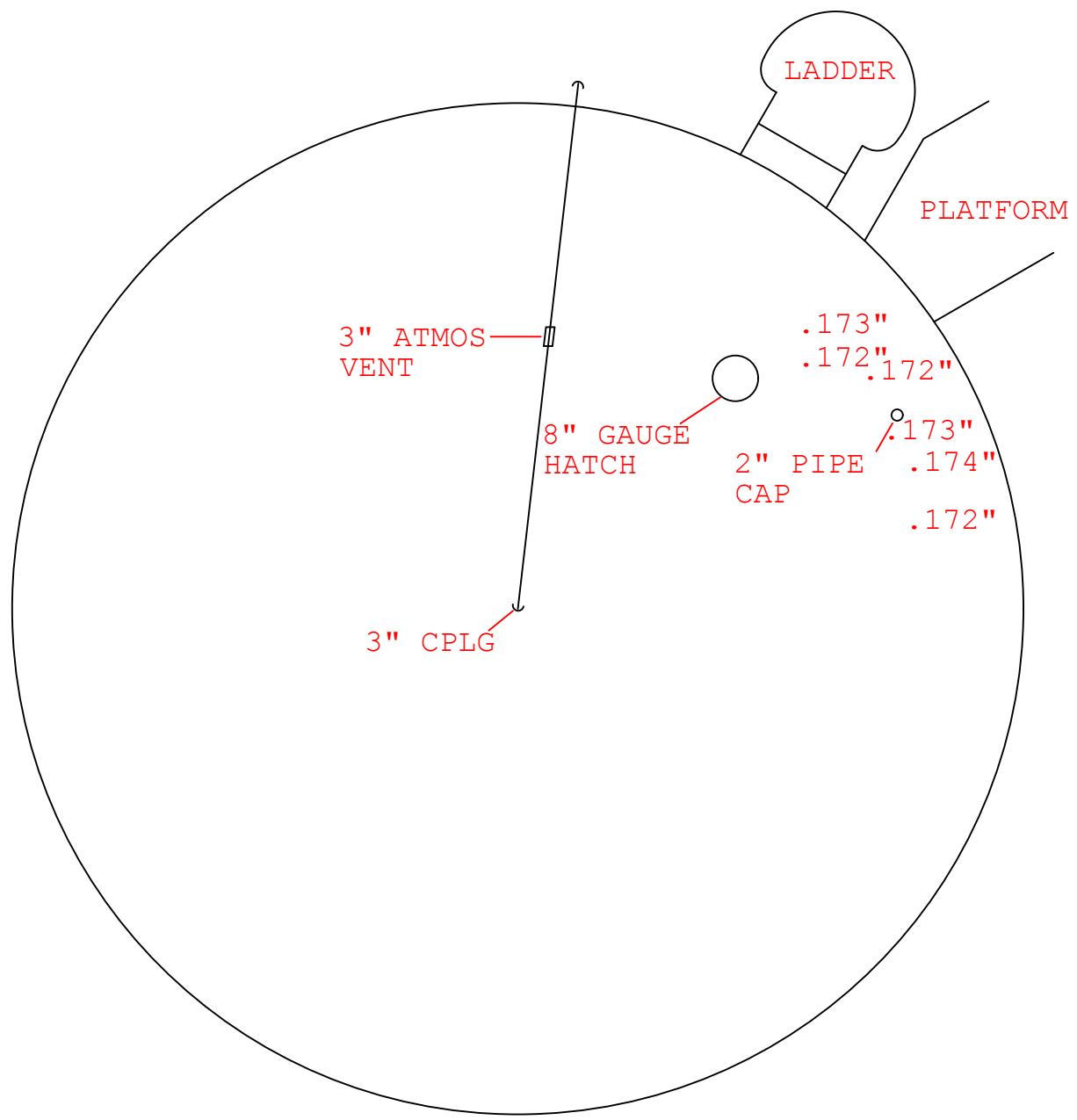
LEGEND

|- INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



VERTICAL THICKNESS READINGS



TRIUMVIRATE
 DAVIE, FL
 TANK #16
 ROOF LAYOUT

NOTES

LEGEND

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 DRAWN USING AUTO CAD LT
 VERSION 2019



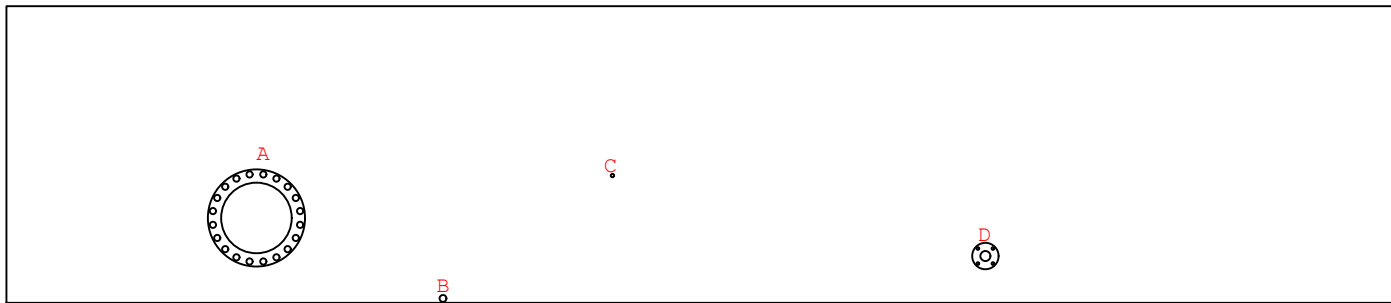
FIXED ROOF LAYOUT

TRIVIRATE
DAVIE, FL
TANK #16
TANK SHEET #SC0101

NOTES

LEGEND

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VERSION 2019



NOZZLE LAYOUT

PHOTOS



MISSION STATEMENT

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TANK #16



NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D



TANK ID



TYP TANK ANCHOR AND BPE
COVERED WITH FIBER GLASS



TYP TANK BRACING / ANCHOR



PAINT FAILURE AND BLISTER



LADDER WITH SAFETY CAGE



ROOF VIEW



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T16</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Numerous areas where the paint is failing.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

Tank is equipped with a fixed ladder and safety cage. There is a platform on the top shell course.

TEMPLATES

Templates will be available upon request.



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D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

**TRIUMVIRATE
DAVIE, FL
Tank #T17**



Date of In - Service Inspection: December 4, 2019

A handwritten signature in black ink, reading "Louis Samaniego". The signature is written in a cursive, flowing style.

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

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DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T17**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tanks are located has excessive debris (pine needles) accumulating under the horizontal tanks. No other conditions of concern were found.

FOUNDATION - The concrete foundation, the base of the containment area, was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - There is no direct access to the steel cone roof. The visual inspection was viewed from an adjacent tank. The limited inspection found no conditions of concern.

SHELL - The lap welded shell was visually inspected and thickness readings were taken. The visual inspection found numerous areas where the paint is failing. No other conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. The visual inspection found some paint failure on the nozzles. No other conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension is covered with fiberglass coating and could not be inspected. The fiberglass appears to be tightly adhered. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. The visual inspection found numerous areas where the paint is failing on the shell and nozzles. No other conditions of concern were found.

OVERFILL PREVENTION - Installed; the tank system is connected to an overfill tank (T1) to prevent spillage.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank is accessed from the adjacent tank's (T16) fixed access ladder. The visual inspection found no conditions of concern.

**TRIUMVIRATE
DAVIE, FL
TANK #T17**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area where the horizontal tanks are located should be properly cleaned (pressure washed) and free of debris.

SPREADSHEETS



MISSION STATEMENT

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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T17	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1989
Tank Description :	LAP WELDED	Diameter :	10.50 feet
Current Product :	USED OIL/OILY WATER	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	20,100 gal
Product Specific Grav. :	0.960		500 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : FLAT

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	20	MANWAY	SC0101	5.70	2.10	0.344	0.356	0.358	0.342		0.357	0.357
B	2	VALVE	SC0101	9.90	0.35							
C	2	COUPLING W/PLASTIC VALVE	SC0101	17.40	5.00	0.244	0.246	0.247	0.246			
D	1	SAMPLE	SC0101	20.50	2.50							
E	3	OUTLET	SC0101	22.80	1.00							
F												
G												
H												
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J												
K												
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S												
T												
U												
V												
W												
X												
Y												
Z												

Shell Horizontal Thickness Readings

Tank #: T17

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																					
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
SC-1		MAX = 240 MIN = 231 AVG = 236																																					
	1	237	238	233	240	239	240	237	236	237	234	232	231																										
	2																																						
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Shell Vertical Thickness Readings

Tank #: T17

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>										
		01	02	03	04	05	06	07	08	09	10	11
SC-1		MAX: 239 MIN: 230 AVG: 236										
	1	233	239	232	232	234	235	230				
	2	238	236	237	236	238	238	237				
	3	239	238	238	234	237	239	237				
	4	235	237	236	238	237	238	230				
SC-2		MAX: 241 MIN: 230 AVG: 235.2										
	1	237	231	232	232	237	234	236	234			
	2	238	236	240	236	241	239	231	238			
	3	236	234	238	237	237	236	235	235			
	4	230	233	234	234	236	236	231	231			
SC-3		MAX: 239 MIN: 232 AVG: 236.2										
	1	236	235	232	235	234	232	235	238			
	2	234	233	235	238	237	238	239	235			
	3	239	238	238	235	235	236	236	239			
	4	239	239	236	236	235	237	235	238			
SC-4		MAX: 241 MIN: 230 AVG: 236										
	1	235	233	234	238	234	235	237	238			
	2	233	233	236	233	232	236	237	239			
	3	237	239	241	238	239	235	239	237			
	4	237	235	237	230	239	236	236	235			

DRAWINGS



MISSION STATEMENT

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TRIUMVIRATE
DAVIE, FL
TANK #17
TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

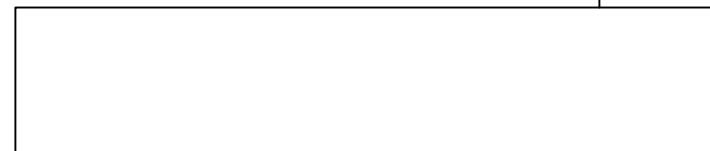
LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES



1

1

TANK LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #17
SHEET IDENTIFICATION

NOTES
SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



SC0401

SC0301

SC0201

SC0101

1

1

SHEET IDENTIFICATION

TRIUMVIRATE
DAVIE, FL
TANK #17
VERTICAL THICKNESS READINGS

NOTES

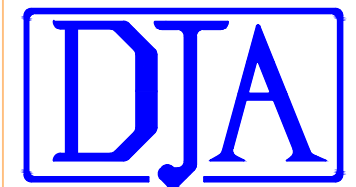
SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND

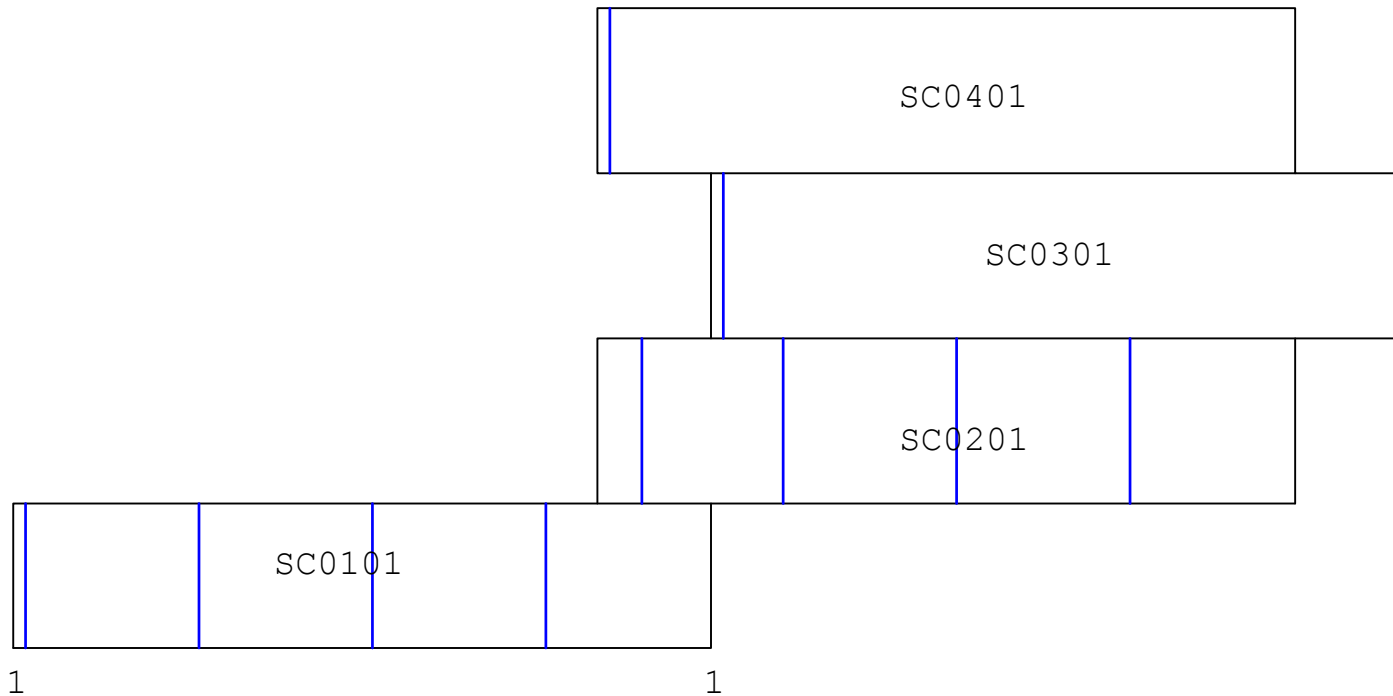
| - INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES



VERTICAL THICKNESS READINGS

PLATFORM .170"
.172" .168"
.170" .170"
2" PIPE CAP .171"

3" ATMOS VENT

8" GAUGE HATCH

TRIUMVIRATE
DAVIE, FL
TANK #17
ROOF LAYOUT

NOTES

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



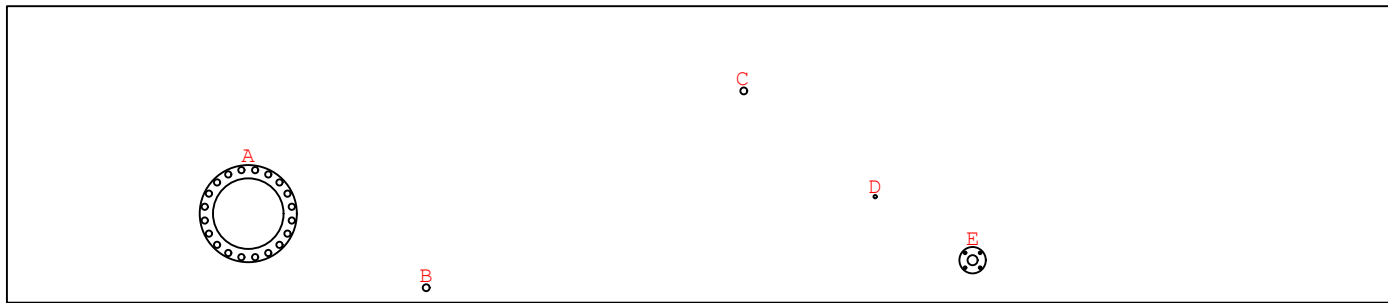
FIXED ROOF LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #17
TANK SHEET #SC0101

NOTES

LEGEND

DRAWN BY C. KREPP
DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

PHOTOS

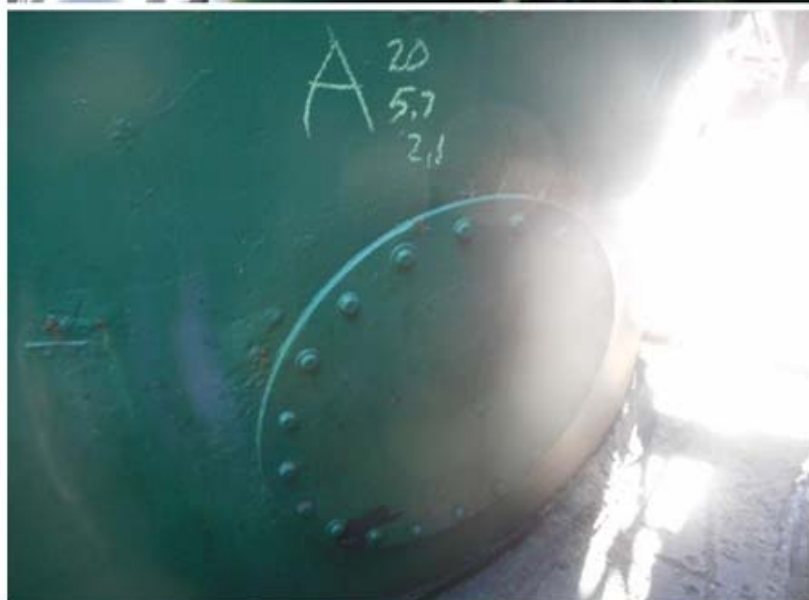


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TANK #17



NOZZLE A



NOZZLE B



NOZZLE C



NOZZLE D



NOZZLE E



TANK ID



TANK BRACING / ANCHOR



TANK ANCHOR AND BPE
COVERED WITH FIBERGLASS



PAINT FAILURE



ACCESS FROM ADJACENT TO TANK #16



ROOF VIEW



ROOF VIEW

CERTIFICATION



MISSION STATEMENT


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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T17</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Numerous areas where the paint is failing.
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tanks are located has excessive amount of debris (pine needles).

Tank roof is accessed from the adjacent tank (T16).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T21



Date of In - Service Inspection: December 4, 2019

A handwritten signature in black ink that reads "Louis Samaniego". The signature is written in a cursive, flowing style.

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T21**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:

- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The containment area constructed with concrete walls and base was visually inspected. The area of the containment where the horizontal tank (T22) is located has excessive debris (pine needles) accumulating around the tank. This is a potential fire hazard for the containment area. No other conditions of concern were found.

FOUNDATION - The concrete foundation was visually inspected. The tank is anchored to the foundation. No conditions of concern were found.

LEAK DETECTION - Visual; no mechanical system is installed but is visually inspected daily.

IMPERMEABLE BARRIER - Installed; the tank is located inside a concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

FIXED ROOF - The roof was only viewed from the ladder area. The roof manway and nozzles are open. The limited inspection found no conditions of concern.

SHELL - The butt welded shell was visually inspected and thickness readings were taken. No conditions of concern were found.

NOZZLES - The nozzles were visually inspected and thickness readings were taken. No conditions of concern were found.

BOTTOM PLATE EXTENSION - The bottom plate extension was visually inspected. The visual inspection found areas where corrosion activity was found on the edge. No other conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted tank system was visually inspected. No conditions of concern were found.

OVERFILL PREVENTION - Installed; auto gauge.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500", and the tank will remain in the same service.

ACCESS - The tank is equipped with a fixed access ladder and safety cage. The visual inspection found no conditions of concern.

**TRIUMVIRATE
DAVIE, FL
TANK #T21**

In-Service Inspection of 12/04/2019

Recommendations:

1. The containment area should be properly cleaned and kept free of debris.
2. Clean and recoat the bottom plate extension to help prevent additional corrosion activity.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIRATE	Location :	DAVIE, FL
Tank # :	T21	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	1996
Tank Description :	BUTT WELDED	Diameter :	20.00 feet
Current Product :	USED OIL/OILY WATER	Height :	31.00 feet
Code :	UNKNOWN	Design Capacity :	72,900 gal
Product Specific Grav. :	0.960		1700 bbl

Is vessel on original location? : Y

Pressure, Operating/Design (psig) : ATMOS / ATMOS
Temperature, Operating/Design (°F) : AMBIENT / UNKNOWN

Shell Material Spec : UNKNOWN

Roof Type : SELF SUPPORTED STEEL CONE

Floating Roof? : N

If so, description : NONE

Type of Seals :

Primary : NONE

Secondary : NONE

Floating Roof Access? : N

If so, description : NONE

Bottom Construction : UNKNOWN

Second Bottom? : N

Second Bottom Type: NA

Year Installed :

External Finish : PAINT

Internal Lining : UNKNOWN

Insulation Type : NA

Nozzle Thickness Readings

Tank #: T2
 Client: TRIUMVIRATE
 Location: DAVIE, FL

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	24	MANWAY	SC0101	4.20	2.00	0.379	0.378	0.377	0.379		0.494	0.493
B	2	COUPLING W/PLUG	SC0101	15.65	4.00	0.444	0.439	0.437	0.438			
C	2	COUPLING W/PLUG	SC0101	15.65	5.00	0.420	0.427	0.427	0.421			
D	3	OUTLET	SC0102	0.35	0.35						0.971	
E	3	OUTLET	SC0102	2.80	0.35						0.972	
F	3	INLET	SC0102	5.30	0.35						0.976	
G	3	INLET	SC0103	7.90	0.35						0.973	
H	1	COUPLING W/PLUG	SC0103	8.90	2.45							
I	3	VALVE W/BF	SC0103	18.00	0.40	0.213	0.211	0.218	0.218		1.047	
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Shell Horizontal Thickness Readings

Tank #: T21

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken:

12/04/2019

Shell Course	Sht No.	Point No.====> Readings in thousandths of an inch																																							
		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35					
SC-1		MAX = 263 MIN = 250 AVG = 256																																							
	1	252	251	250	252	252	254	251	252	253																															
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Shell Vertical Thickness Readings

Tank #: T21

Client: TRIUMVIRATE

Location: DAVIE, FL

Data taken: 12/04/2019

Shell Course	Drop No.	Point No. V - ==>										Readings in thousandths of an inch	
		01	02	03	04	05	06	07	08	09	10	11	
SC-1		MAX: 265 MIN: 248 AVG: 256.8											
	1	252	255	254	257	258	257	256	255	250			
	2	251	251	252	255	254	255	256	256	256			
	3	259	260	264	265	265	265	264	263	260			
	4	255	257	258	259	258	256	255	255	248			
SC-2		MAX: 257 MIN: 247 AVG: 252.8											
	1	247	251	252	251	252	255	254	257	256			
	2												
	3												
	4												
SC-3		MAX: 257 MIN: 245 AVG: 253.6											
	1	256	252	251	245	253	256	257	256	256			
	2												
	3												
	4												
SC-4		MAX: 257 MIN: 253 AVG: 255											
	1	254	255	256	257	255	253						
	2												
	3												
	4												

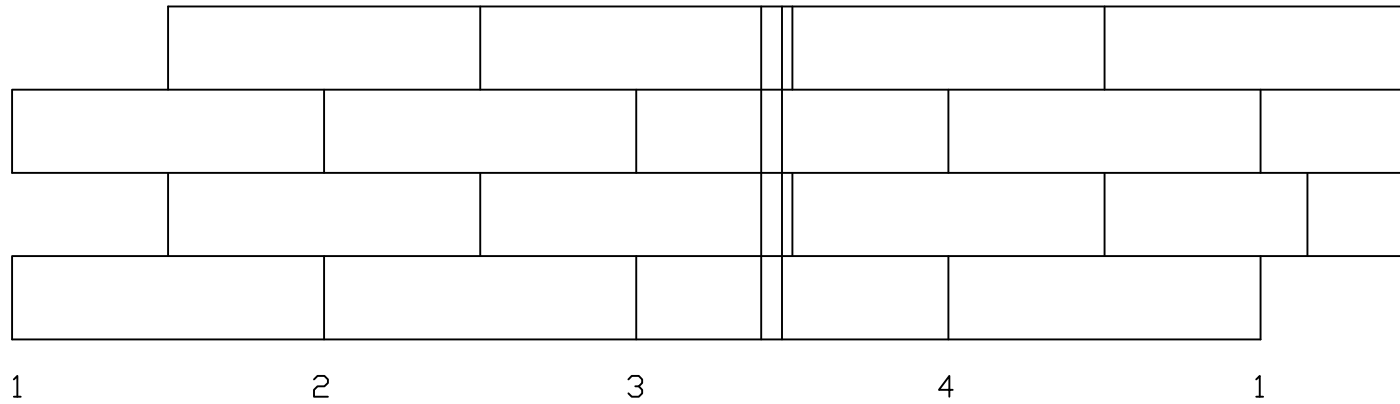
DRAWINGS



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

LADDER



TRIUMVIRATE
DAVIE, FL
TANK #21
TANK LAYOUT

NOTES

SC#### - SIGNIFIES THE SHELL
COURSE AND THE SHEET. THE
FIRST TWO DIGIT NUMBER IS THE
SHELL COURSE NUMBER AND THE
FOLLOWING TWO DIGIT NUMBER
IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP

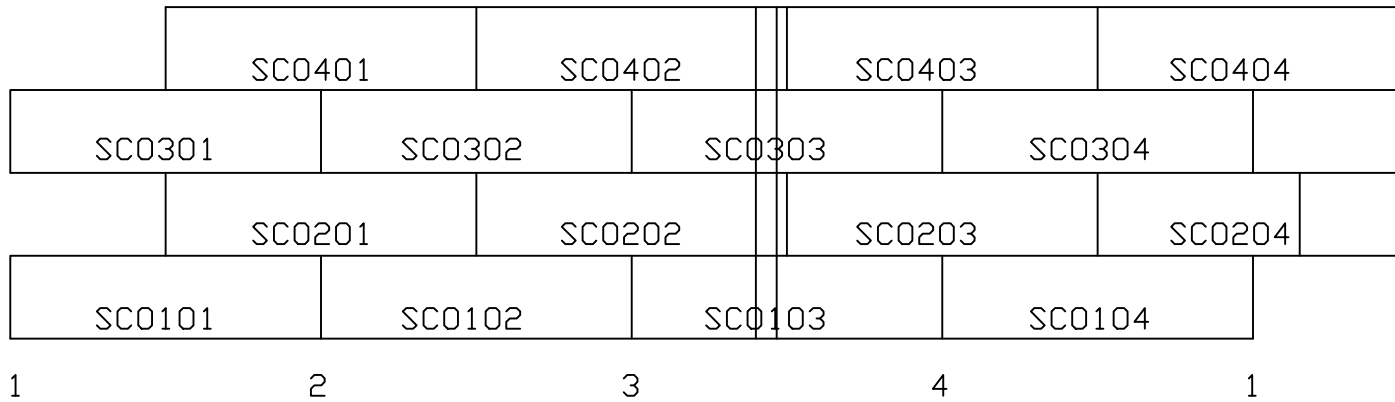
DRAWN USING AUTO CAD LT
VERSION 2019



INSPECTION SERVICES

TANK LAYOUT

LADDER



TRIUMVIRATE
 DAVIE, FL
 TANK #21
 SHEET IDENTIFICATION

NOTES
 SC#### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND

DRAWN BY C. KREPP
 DRAWN USING AUTO CAD LT
 VERSION 2019



SHEET IDENTIFICATION

TRIVIRATE
DAVIE, FL
TANK #21
VERTICAL THICKNESS READINGS

NOTES

SC### - SIGNIFIES THE SHELL COURSE AND THE SHEET. THE FIRST TWO DIGIT NUMBER IS THE SHELL COURSE NUMBER AND THE FOLLOWING TWO DIGIT NUMBER IS THE SHEET NUMBER.

LEGEND

| - INDICATES THE LOCATION OF THE VERTICAL THICKNESS READINGS ON THE TANK SHELL LAYOUT.

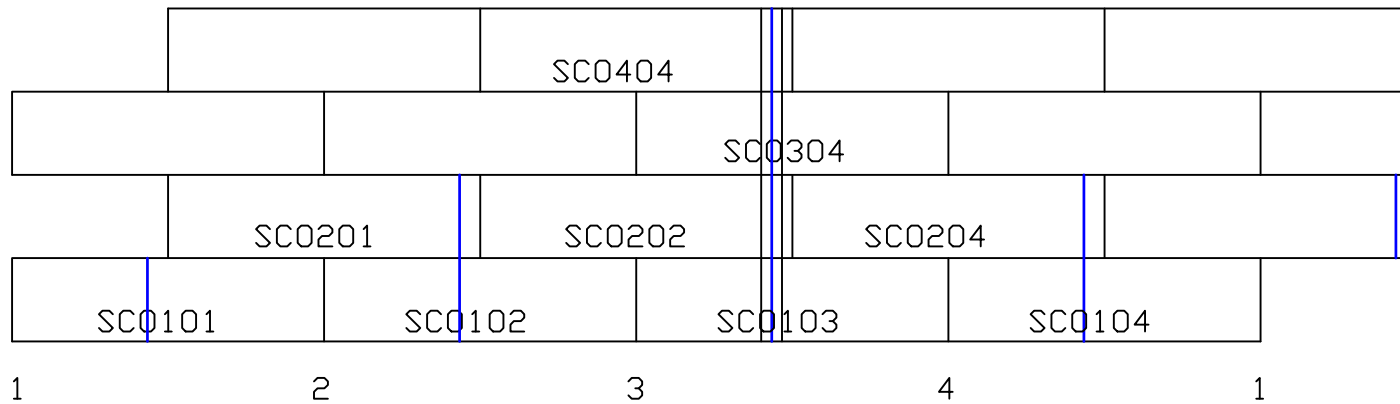
DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
VERSION 2019

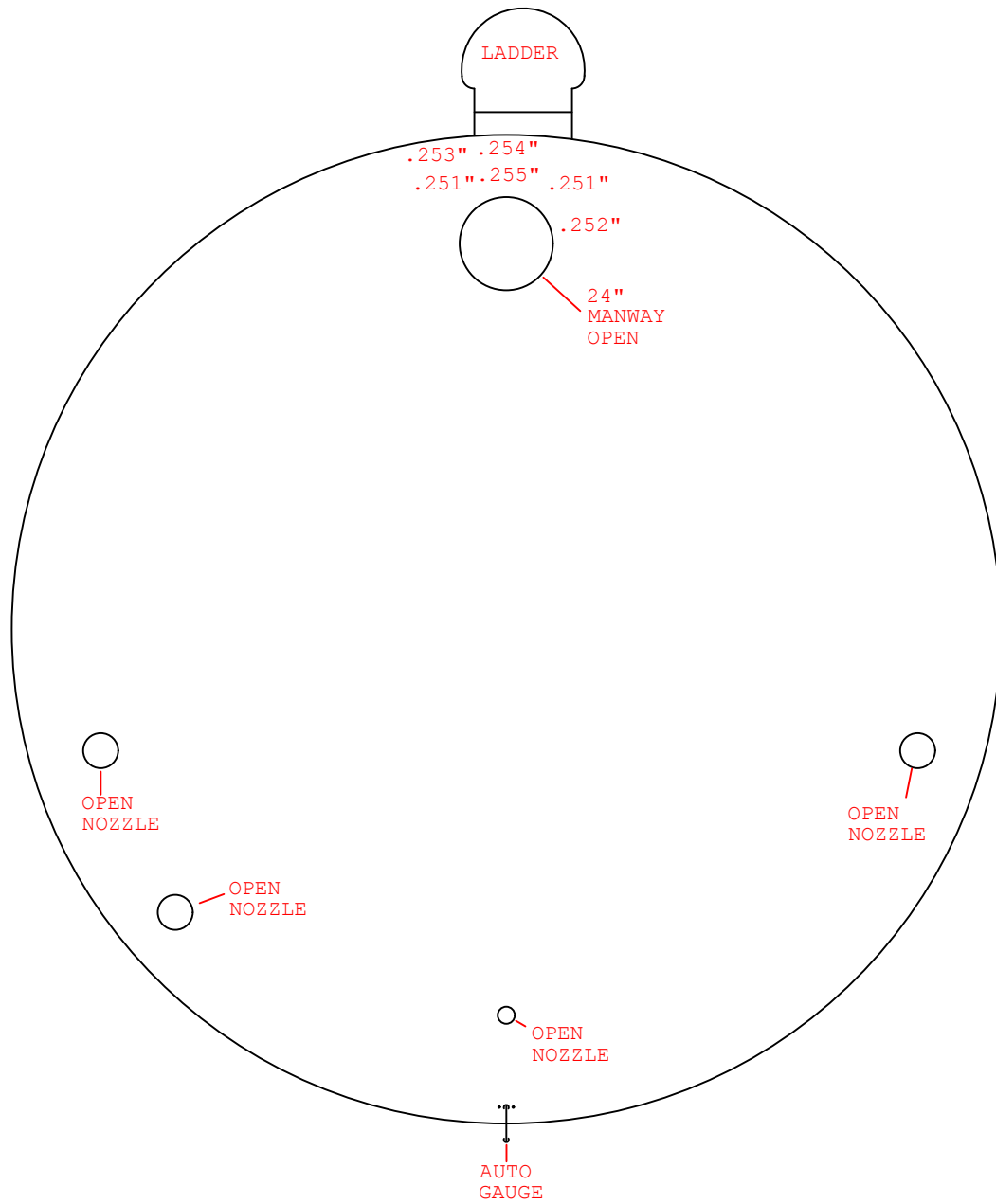


INSPECTION SERVICES

LADDER



VERTICAL THICKNESS READINGS



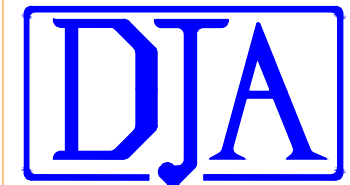
TRIVIRATE
 DAVIE, FL
 TANK #21
 ROOF LAYOUT

NOTES

LEGEND

DRAWN BY C. KREPP

DRAWN USING AUTO CAD LT
 VERSION 2019



INSPECTION SERVICES

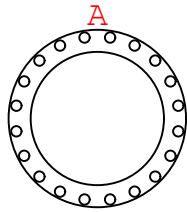
FIXED ROOF LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #21
TANK SHEET #SC0101

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

TRIVIRATE
DAVIE, FL
TANK #21
TANK SHEET #SC0102

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

TRIUMVIRATE
DAVIE, FL
TANK #21
TANK SHEET #SC0103

NOTES

LEGEND

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DRAWN USING AUTO CAD LT
VERSION 2019



NOZZLE LAYOUT

PHOTOS



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TANK #21



NOZZLE A



NOZZLE B & C



NOZZLE D & E



NOZZLE F & G



NOZZLE H



NOZZLE I



TANK ID



NO NAME PLATE



FOUNDATION & ANCHOR



BPE- CORROSION ON EDGE



AUTO GAUGE



FIXED LADDER



ROOF MANWAY OPEN



ROOF MANWAY NOZZLE



AUTO GAUGE AND NOZZLE WITH SENSOR



OPEN ROOF NOZZLES



CONTAINMENT AREA NEAR
HORIZONTAL TANK EXCESSIVE DEPRIS

CERTIFICATION



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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certificate is dependent on an active API 653 certification.

CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors. This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

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STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>LOUIS SAMANIEGO</u>	Title: <u>INSPECTOR</u>	
Inspector's Signature: <u>SIGNATURE ON FILE</u>		
Tank(s) inspected ID <u>T21</u>		
Regulatory facility name and ID number (if applicable) <u>TRIUMVIRATE – DAVIE, FL</u>		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete slab foundation.

3	Tank supports in satisfactory condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Tank is anchored to the concrete foundation.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
19	Insulation free of noticeable areas of moisture?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
20	Insulation free of mold?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

Containment area where the horizontal tank (T22) is located has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



MISSION STATEMENT

"DJA Inspection Services, Inc. mission is to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

D J A INSPECTION SERVICES, INC.

Storage Tank Management & Inspection

814-676-3663
661-363-5453

P. O. Box 384
P. O. Box 544

Reno, PA 16343
Edison, CA 93220

TRIUMVIRATE DAVIE, FL Tank #T22



Date of In - Service Inspection: December 4, 2019

Inspector: Louis Samaniego
API Certificate #48047
STI Certificate #AC 44033

Dependable • Judicious • Affordable

DJA Inspection Service, Inc.

Purpose

This report is given to enable one to assess the serviceability of this tank. The report is of a Steel Tank Institute SPOO1 inspection made by DJA Inspection Services, Inc.

It is the mission of DJA Inspection Services to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner.

DJA obtains this through the use of proper instrumentation, equipment, and trained inspectors. DJA also insists on its minimum inspection requirements being fulfilled even if they exceed the customer's request. With DJA, the report content and context is weighted heavily in all inspections.

DJA intends to provide this service at a reasonable rate and provide reports in a timely manner.

SUMMARY/RECOMMENDATIONS

Recommendations found in this report made by DJA Inspection Services, Inc. are for report purposes only. Actual repair needs are to be determined and designed by the tank owner after review of the entire report.



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**TRIUMVIRATE
DAVIE, FL
TANK #T22**

In-Service Inspection of 12/04/2019

Summary:

DATE OF INSPECTION - Next required inspection per STI SP001:
- Next Inspection: Periodic, External 12/04/2039

Note: The next inspection dates are based on the completion of all recommendations listed. Local regulatory or company requirements may supersede the published next inspection intervals per STI SP001. This tank is considered Category 1 per STI guidelines.

CONTAINMENT AREA - The concrete containment area was visually inspected. There is an excessive amount of debris (pine needles) that has accumulated around the tank. This is a potential fire hazard to the tank system. No other conditions of concern were found.

FOUNDATION - The concrete foundation was visually inspected. No conditions of concern were found.

SUPPORT SYSTEM - The tank sits on three saddle supports constructed with steel plate and they are bolted to the concrete foundation. The center saddle support reinforcing plate is not seal welded to the tank shell. This is an area where moisture may become trapped and corrosion may occur. No other conditions of concern were found.

LEAK DETECTION - Visual.

IMPERMEABLE BARRIER - Installed; concrete containment area.

SETTLEMENT - The visual inspection did not find any settlement issues.

SHELL / HEADS - The external but welded shell was visually inspected and thickness measurements were taken at accessible areas. The reinforcing pads of the center saddle support are not seal welded to the shell. This is an area where moisture may become trapped and corrosion may occur. The paint coating on the shell and heads is in good condition.

NOZZLES - The nozzles were visually inspected and thickness readings were taken where accessible. Some of the nozzles are insulated. The visual inspection found the insulation to be in good condition. No conditions of concern were found.

PIPING - The piping connections at the tank were visually inspected. Some of the piping is insulated. The visual inspection found the insulation to be in good condition. No conditions of concern were found.

EXTERNAL DETERIORATION PROTECTION - The painted and insulated tank system was visually inspected. No conditions of concern were found.

OVERFILL PREVENTION - Installed; high level alarm and manually gauged. The visual inspection found no conditions of concern.

BRITTLE FRACTURE - Brittle fracture should not be a concern since the shell thickness is less than 0.500".

ACCESS - The visual inspection of the stairway and platform system found no conditions of concern.

**TRIUMVIRATE
DAVIE, FL
TANK #T22**

In-Service Inspection of 12/04/2019

Recommendations:

1. Remove the excessive debris (pine needles) from the containment area.

SPREADSHEETS



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Tank Data Summary

Customer :	TRIUMVIATE	Location :	DAVIE, FL
Tank # :	22	Serial # :	UNKNOWN
Manufacturer :	UNKNOWN	Year Built :	2014
Tank Description :	BUTT	Diameter :	10.00 feet
Current Product :	USED OIL	Length :	34.00 feet
Code :	UNKNOWN	Design Capacity :	20,000 gal
Product Specific Grav. :	0.960		500 bbl

Is Data Plate Present?	N
Is vessel on original location? :	Y

Pressure, Operating/Design (psig) :	ATMOS/UNKNOWN
Temperature, Operating/Design (°F) :	AMBIENT/UNKNOWN

Shell Material Spec : UNKNOWN

Leak Detection?:	Y
Impermeable Barrier?:	Y
If so, Impermeable Barrier type:	CONCRETE CONTAINMENT
Cathodic Protection?	N
If so, Cathodic Protection Type:	NA
Internal Lining :	
If so, Internal Lining type:	NA

Flow Rates :	
Current Flow Rate:	UNAVAILABLE
Max Flow Rate:	UNAVAILABLE

External Finish :	PAINT
Insulation Type :	NONE

Nozzle Information

Tank #: 22
 Client: TRIUMVIATE
 Location: DAVIE, FL

Data taken: 12/4/2019

Tag	Size in.	Service	Sheet ID Tag	Co-ord., ft		Nozzle Thick, inches				Re-pad Thk, in	Flange Thk, in	Cover Plate Thk, in
				X-Axis	Y-Axis	Top	Left	Btm	Right			
A	3	INLET	TOP	3.1	8.00	0.450	0.559	0.555	0.558		D	
B	18	MANWAY	TOP	7.2	8.00	0.209	0.205	0.206	0.204		A	0.236
C	3	MIXER	TOP	9.1	8.00	0.450	0.528	0.531	0.522		D	
D	3	MIXER	TOP	25.1	8.00	0.450	0.528	0.533	0.521		D	
E	18	MANWAY	TOP	27.0	8.00	0.198	0.197	0.199	0.206		A	0.245
F	3	INLET	TOP	31.0	8.00	0.450	0.523	0.529	0.523		D	
G	3	HEAT COIL	HEAD 1	1.6	1.10	NA					INSULATED	
H	3	HEAT COIL	HEAD 1	5.0	3.00	NA					INSULATED	
I	3	HEAT COIL	HEAD 1	8.4	3.00	NA					INSULATED	
J	18	MANWAY	HEAD 1	5.0	5.00	0.222	0.224	0.223	0.221		A	0.372
K	3	OUTLET	HEAD 2	5.0	0.50	0.198	0.202	0.201	0.200		B	
L	18	MANWAY W/ (2) 1"	HEAD 2	5.0	2.00	0.222	0.221	0.226	0.224		A	0.370
M	1	SAMPLE	HEAD 2	3.0	4.00	0.220					D	
N	1	TI	HEAD 2	3.0	5.00	0.220					D	
O	1	SAMPLE	HEAD 2	2.0	6.00	0.220					D	
P	1	SAMPLE	HEAD 2	3.0	7.00	0.220					D	
Q												
R												
S												
T												
U												
V												
W												
X												
Y												
Z												

Head Thickness Readings

Reference Template STR-1 or STR-2

Tank #: 22

Client: TRIUMVIATE

Location: DAVIE, FL

Data taken _____ 12/4/2019

	Point No.====> Readings in thousandths of an inch																																				
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Head 1	MAX = 318 MIN = 313 AVG = 316																																				
	313	318	317	317	317	317	318	318	314	314	317	316	317																								
Head 2	01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35																																				
	MAX = 319 MIN = 314 AVG = 317																																				
	317	317	316	318	316	314	316	319	319	317	317	317	318																								

Shell Thickness Readings

Reference Template STR-1 or STR-2

Tank #: 22

Client: TRIUMVIATE

Location: DAVIE, FL

Data taken _____ 12/4/2019

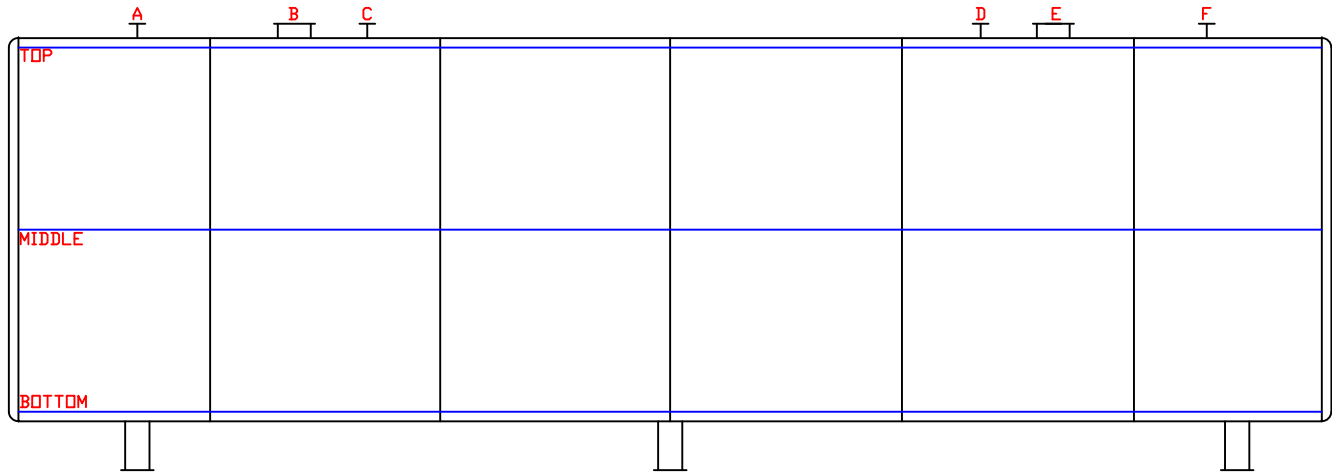
	Point No.====> Readings in thousandths of an inch																																		
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
	MAX = 264 MIN = 255 AVG = 259																																		
Top	258	258	264	261	261	260	257	260	261	262	261	261	257	255	257	257	256	256	255	261	260	260	261	260	260	260	260	259	256	257	255	255	259	260	
Middle	255	257	256	256	255	256	259	260	261	260	260	257	259	260	261	260	260	258	260	261	262	261	260	258	260	261	262	261	261	258	255	257	257	257	255
Bottom	257	256		257	256	258	260	263	262	261	260	257	259	260	260	261	260		260	260	261	261	260	258	260	261	262	261	260	256	256	256		256	256

DRAWINGS



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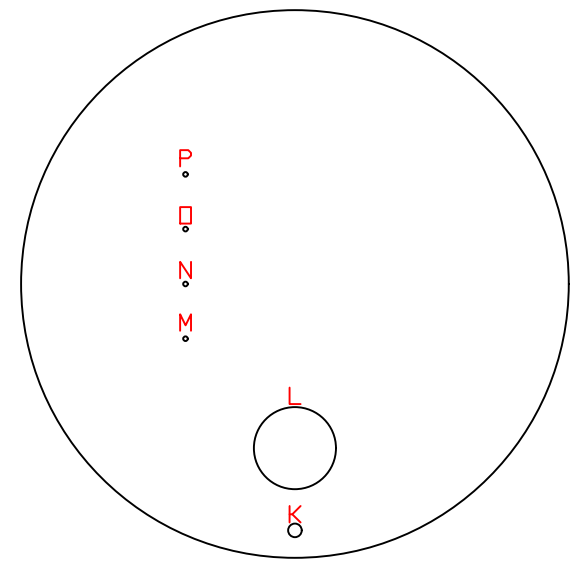
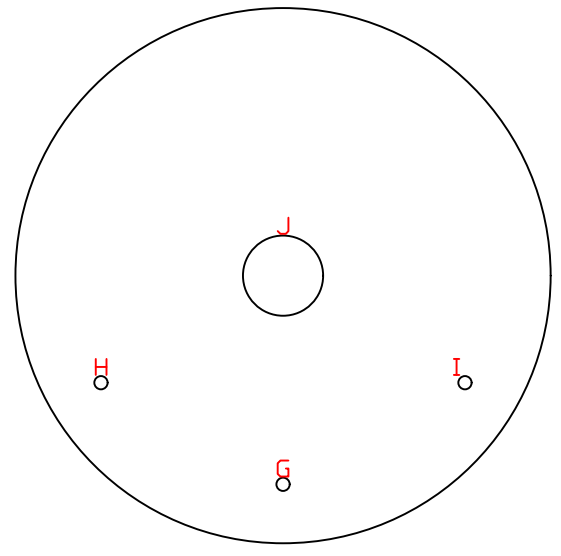


TRIMUMVIRATE
 DAVIE, FL
 TANK #22
 VESSEL LAYOUT



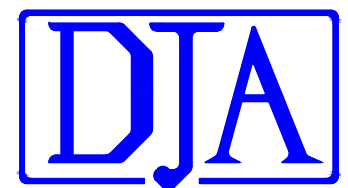
HEAD 1

HEAD 2



LEGEND
 - SEE NOZZLE THICKNESS READINGS PAGE FOR NOZZLE DETAILS.
 - INDICATES LOCATION WHERE THICKNESS READINGS WERE TAKEN.

DRAWN BY F. BOYD
 DRAWN USING AUTO CAD LT
 VERSION 2002



INSPECTION SERVICES

TANK LAYOUT

PHOTOS



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TANK #22



TANK ID



NAME PLATE



HEAD 2



HEAD 1



TOP NOZZLES



TOP NOZZLES



SADDLE SUPPORT SEALED



SADDLE SUPPORT NOT SEALED



DEBRIS AROUND TANK

CERTIFICATION



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Dear Mr. Samaniego:

Congratulations on passing STI SP001 Adjunct online certification course. Below is your STI Inspector identification card and certificate. We suggest that you print this page and:

- Cut out and laminate the ID card
- Frame the certificate

If you have any questions about this or any field related inspection, please feel free to call Dana Schmidt, STI Project Engineer, at (847) 550-3832.

 **STI/SPFA**
Aboveground Tank Inspector
Certification Program
847/438-8265

Issue Date:
01/03/2019

Name: **Louis Samaniego**
STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person to whom this card has been issued has met the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certificate is dependent on an active API 653 certification.


CERTIFICATION


Steel Tank Institute

Louis Samaniego

STI Inspector No: **AC 44033**
Expires: **January 3, 2024**

The person whose name appears on this certificate has met all of the requirements to attain the STI SP001 Adjunct Certification for API 653 Inspectors.
This certification is dependent on an active API 653 certification.


Dana Schmidt, P.E.
Steel Tank Institute



The official status of this certificate can be verified at www.steeltank.com

Issue Date:
01/03/2019

RAW DATA

Available upon request.



MISSION STATEMENT

"It is the mission of DJA Inspection Services, Inc. to provide full service tank inspections to the storage tank industry, to be known for quality and detailed inspections through the dedication and experience of our team and to provide the service worldwide as well as to the individual tank owner."

STI SP001 Annual Inspection Checklist

General Inspection Information:

Inspection Date: <u>12/04/2019</u>	Prior Inspection Date: <u>NA</u>	Retain until date: <u>12/04/2022</u>
Inspector Name (print): <u>Louis Samaniego</u>	Title: <u>Inspector</u>	
Inspector's Signature: <u>Signature on file</u>		
Tank(s) inspected ID <u>T22</u>		
Regulatory facility name and ID number (if applicable) _____		

Inspection Guidance:

- This checklist is intended as a model. Locally developed checklists are acceptable as long as they are substantially equivalent (as applicable).
- For equipment not included in this Standard, follow the manufacturer recommended inspection/testing schedules and procedures.
- The periodic AST Inspection is intended for monitoring the external AST condition and its containment structure. This visual inspection does not require a Certified Inspector. It shall be performed by an owner's inspector per paragraph 4.1.2 of the standard.
- Remove promptly standing water or liquid discovered in the primary tank, secondary containment area, interstice, or spill container. Before discharge to the environment, inspect the liquid for regulated products or other contaminants and disposed of it properly.
- In order to comply with EPA SPCC (Spill Prevention, Control and Countermeasure) rules, a facility should regularly test liquid level sensing devices to ensure proper operation (40 CFR 112.8(c)(8)(v)).
- Non-conforming items important to tank or containment integrity require evaluation by an engineer experienced in AST design, a Certified Inspector, or a tank manufacturer who will determine the corrective action. Note the non-conformance and corresponding corrective action in the comment section.
- Retain the completed checklists for at least 36 months.
- Complete this checklist on an annual basis, supplemental to the owner monthly-performed inspection checklists.
- **Note: If a change has occurred to the tank system or containment that may affect the SPCC plan, the condition should be evaluated against the current plan requirement by a Professional Engineer knowledgeable in SPCC development and implementation.**

ITEM	STATUS	COMMENTS / DATE CORRECTED
Tank Foundation/Supports		
1	Free of tank settlement or foundation washout?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Concrete pad or ring wall free of cracking and spalling?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Concrete foundation is the base of the containment area.

3	Tank supports in satisfactory condition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Three saddle supports made of steel plate.
4	Is water able to drain away from tank if tank is resting on a foundation or on the ground?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
5	Is the grounding strap between the tank and foundation/supports in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank Shell, Heads and Roof			
6	Free of visible signs of coating failure?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
7	Free of noticeable distortions, buckling, denting, or bulging?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
8	Free of standing water on roof?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No roof. Horizontal tank.
9	Are all labels and tags intact and legible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Tank Manways, Piping, and Equipment			
10	Flanged connection bolts tight and fully engaged with no sign of wear or corrosion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Tank Equipment			
11	Normal and emergency vents free of obstructions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
12	Normal vent on tanks storing gasoline equipped with pressure/vacuum vent?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
13	Are flame arrestors free of corrosion and are air passages free of blockage?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
14	Is the emergency vent in good working condition and functional, as required by manufacturer? Consult manufacturer's requirements. Verify that components are moving freely (including long-bolt manways).	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
15	Is interstitial leak detection equipment in good condition? Are windows on sight gauges clear? Are wire connections intact? If equipment has a test function, does it activate to confirm operation?"	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

16	<p>Are all valves free of leaks, corrosion and other damage? Follow manufacturers' instructions for regular maintenance of these items. Check the following and verify (as applicable):</p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-siphon valve <input type="checkbox"/> Check valve <input type="checkbox"/> Gate valve <input type="checkbox"/> Pressure regulator valve <input type="checkbox"/> Expansion relief valve <input type="checkbox"/> Solenoid valve <input type="checkbox"/> Fire valve <input type="checkbox"/> Shear valve 	<ul style="list-style-type: none"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 	
17	Are strainers and filters clean and in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Insulated Tanks			
18	Free of missing insulation? Insulation free of visible signs of damage? Insulation adequately protected from water intrusion?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Several nozzles and piping are insulated. The tank is not insulated.
19	Insulation free of noticeable areas of moisture?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
20	Insulation free of mold?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
21	Free of visible signs of coating failure?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Tank / Piping Release Detection			
22	Is inventory control being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
23	Is release detection being performed and documented if required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Other Equipment			
24	Are electrical wiring and boxes in good condition?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
25	Has the cathodic protection system on the tank been tested as required by the designing engineer?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Additional Comments:

The containment area has excessive amount of debris (pine needles).

TEMPLATES

Templates will be available upon request.



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