DEPARTMENT OF ECOLOGY
State of Washington

WA LEAK TESTING CHECKLIST
FOR UNDERGROUND STORAGE TANKS (USTS)

UST ID #: 7691
County: King

This checklist certifies testing activities conducted in accordance with Chapter 173-360A WAC. Read instructions on pages 4-7.

☑ **PASS -** All Section VI services performed have passing results. ☐ **FAIL -** One or more components tested in Section VI require repair and re-testing.	**DATE TESTS CONDUCTED:** **12/03/2020**

I. UST FACILITY	II. CERTIFIED SERVICE PROVIDER
Facility Compliance Tag #: A0500	Service Provider Name: Chris Kuykendall
UST ID #: 7691	Company Name: Northwest Tank & Environmental Services, Inc.
Site Name: 627	Address: 17407 59th Ave SE
Site Address: 15 East Sunset Way	City: Snohomish State: WA Zip: 98296
City: Issaquah	Phone: (800) 742-9620 Email: info@nwtank.com
County: King	ICC Certification Type: Tightness Testing ICBO- U3
Site Phone: 425-427-2744	ICC Cert. #: 383722020-U3 Exp. Date: 10/17/2022

III. UST OWNER/OPERATOR

Name: Jacksons Food Stores Phone: 208-888-6061 Email: richard.wright@jacksonsfoodstores.com

IV. UST SYSTEM INFORMATION

Observations on test day.

1. Tank ID #, as registered with Ecology or identified on AT G	1	2
2. Tank Status. OP (Operational); TC (Temporary Closure)	OP	OP
3. Product stored, including % of alternative fuels	Premium	Regular
4. Tank or compartment capacity (gallons)	12000	20000
5. Product pumping/flow method. Note as: P (Pressurized); NS (Non-safe Suction); SS (Safe Suction); Si (Siphon); GR (Gravity Fed)	Pressure	Pressure
Abbreviations for lines 5 and 6 below: Steel (ST); Fiberglass (FRP); Clad Steel (CLAD); Flexible (FLEX); Double Wall (DW); Single Wall (SW); Not Visible (NV)		
6. Tank material and construction observed	FRP	FRP
7. Pipe material and construction observed	FRP	FRP

V. REASON FOR SERVICES PERFORMED

(Check all that apply)

☑ Annual testing	☐ Test after install/repair	☐ Other (explain):
☐ 3-year testing	☐ Return UST system to operation	

VI. SERVICES PERFORMED

Required: Include verification for each test performed.

SERVICES:	#PASS	#FAIL	# REPAIRED & PASSING	DESCRIPTIONS REQUIRED: (SEE INSTRUCTIONS P. 4-7)
ALLD Test **(attach data)** Test method used: **LDT 890** Test method cert.exp.date:**10/24/2022**	2			
Line Tightness Test **(attach data)** Test method used: **Acurite** Test method cert.exp.date: **10/24/2022**	2			
Electronic Monitoring System Tests Controller.mfr/model:**V-R TLS 350** Controller cert.exp.date: **7/23/2022**				. RP 1200 Replaced and Retested Regular Fill sump VR 352 sensor with passing results
Monitor/controller	1			
Probe	2			
Sump Sensor Functionality	7		1	
Tank Annular Sensor Functionality	2			
OverfillEquipment Test ☐ Auto shutoff ☐ Ball float valve ☑ Overfill alarm	1			
Fill/Spill Bucket Test **(attach data)**				
Tank-Top or Transition Sump Test **(attach data)**				
UDC Sump Test **(attach data)**				
Tank Tightness Test **(attach data)** 3rd-party certified test: Test method used: **N/A** Test method cert.exp.date:				
Other				

VII. EXPLANATIONS/PROBLEMS ENCOUNTERED:

Provide additional test information. Explain irregularities. Describe problems encountered and how addressed..

Leak Detector:
Comments - Tied in and tested from impacts in Disp 7/8.
Upon tying in to Regular impact there was high bleedback (2400 ml). Replaced the siphon jet and pumped from each dispenser to purge air from the line.
Both ALLD's passed the 3 GPH test in accordance with CFR 40 part 280.44.

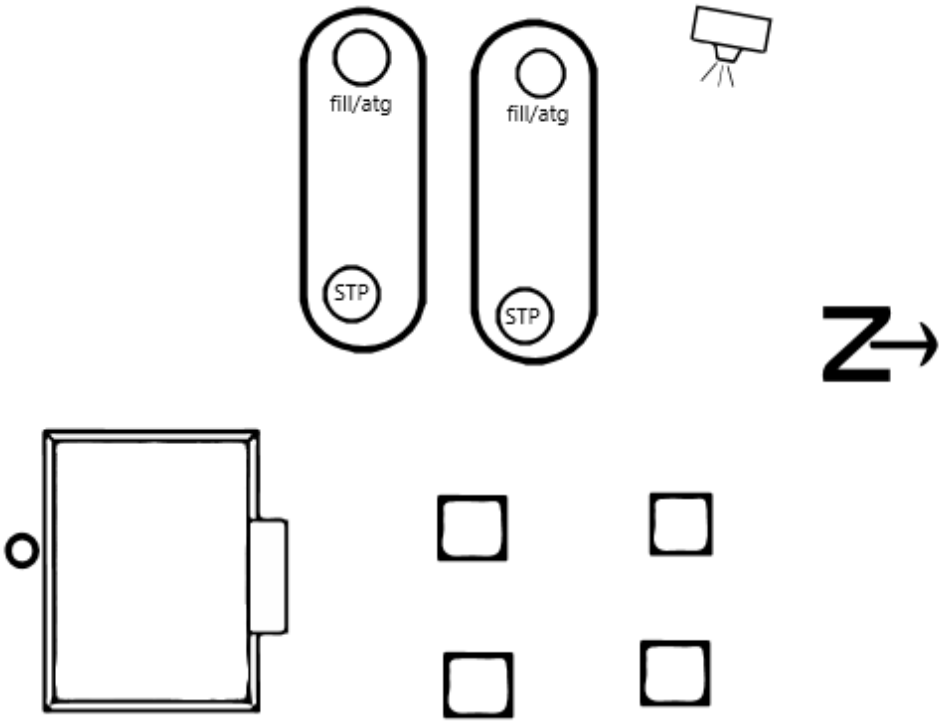
Line Test:
Comments - Tied in and tested from impacts in Disp 7/8.
Both lines passed the 0.01 GPH test in accordance with CFR 40 part 280.44.

Tank Monitor:

--Tank_monitors--
#1: TLS 350 was tested per RP 1200 standards.
Backup battery was measured at 3.6v
Upon review of the setup, found Premium tank programmed for 4" floats. T1 Premium probe has 2" floats installed. Corrected setup to reflec t equipment installed.
L5 Regular fill sump VR 352 sensor failed to alarm when tested. Replaced with a VR 352 SN: 444325. New sensor was tested with passing r esults.
Found L1 Premium STP sump sensor in liquid alarm on arival. Premium STP sump has a large amount of water in it. Notified manager to ha ve sites maintenance to have the water removed.
Probes were removed and tested for High product, overfill, high water alarm and high water warning.
2- VR 352 Fill sump sensors, 2- VR 352 STP sump sensors, 4- VR 208 UDC sensors, and 2- VR 303 annular sensors were tested and confir med operational to manufacturer specifications.
VR001 High level alarm was functionally tested to RP 1200 standards, by raising the product floats to 90% capacity, and was confirmed oper ational.

VIII. UST SITE AND SYSTEM DIAGRAM

Diagram required. Include North arrow.



PERSONS SUBMITTING FALSE INFORMATION ARE SUBJECT TO FORMAL ENFORCEMENT AND /OR PENALTIES UNDER CHAPTER 173-360A WAC.

IX. FINAL CHECK

Mark the following:	YES	NO	N/A
1. All checked services tested per recommended practices, code and/or manufacturer's require ments, and in accordance with state regulations.	☑	☐	☐
2. Owner/operator provided with copy of the checklist and testing results.	☑	☐	☐
3. Any faulty equipment or necessary repairs explained to owner/operator or site contact.	☐	☐	☑

X. REQUIRED SIGNATURES

Date	Signature of Certified Service Provider	Print or Type Name
12/03/2020		Chris Kuykendall - Tech
12/04/2020		Andrew Marvin

Monitoring System Certification

This form must be used to document testing and servicing of monitoring equipment. A separate certification or report must be prepared for each monitoring system control panel by the technician who performs the work. A copy of this form must be provided to the tank system owner/operator. The owner/operator must submit a copy of this form to the local agency regulating UST systems within 30 days of test date.

A. General Information
Facility Contact Person: Andrew Marvin
Make / Model Monitoring System: V-R TLS 350

Company Name: Jacksons Food Stores
Site Address: 15 East Sunset Way
UST Site ID: 7691
Date Of Testing: 12/03/2020
Site Name: 627
City, State, ZIP: Issaquah, WA 98027
Facility Phone Number: 425-427-2744
Serial #: 40321219805002

B. Inventory of Equipment Tested/Certified

Tank #: 1 Premium	
In-Tank Gauging Probe	Mag 1 Probe
Annular Space or Vault Sensor:	794380-303
Piping Sump / Trench Sensor:	794380-352
Fill Sump Sensor:	794380-352
Mechanical Line Leak Detector:	N/A
Electronic Line Leak Detector:	8484
Tank Overfill / High Level Sensor:	HLA/DTFV
Other:	

Tank #: 2 Regular	
In-Tank Gauging Probe	Mag 1 Probe
Annular Space or Vault Sensor:	794380-303
Piping Sump / Trench Sensor:	794380-352
Fill Sump Sensor:	794380-352
Mechanical Line Leak Detector:	N/A
Electronic Line Leak Detector:	8484
Tank Overfill / High Level Sensor:	HLA/DTFV
Other:	

Dispenser ID:	1/2
Dispenser Containment Sensors Model:	794380-208
Shear Valves: Yes	**Floats & Chains:** N/A

Dispenser ID:	3/4
Dispenser Containment Sensors Model:	794380-208
Shear Valves: Yes	**Floats & Chains:** N/A

Dispenser ID:	5/6
Dispenser Containment Sensors Model:	794380-208
Shear Valves: Yes	**Floats & Chains:** N/A

Dispenser ID:	7/8
Dispenser Containment Sensors Model:	794380-208
Shear Valves: Yes	**Floats & Chains:** N/A

C. Certification

I certify that the equipment identified in this document was inspected/serviced in accordance with the manufacturers' guidelines. Attached to this certification is information (e.g. manufacturers' checklists) necessary to verify that this information is correct and a Plot Plan showing the layout of monitoring equipment. For any equipment capable of generating such reports, I have also attached a copy of the report (check all that apply):

Technician Name: Chris Kuykendall
Certification Number:
Expiration Date:
Signature:

Testing Company Name: Northwest Tank & Environmental Services, Inc.
Address: 17407 59th Ave SE Snohomish, WA 98296
Date of Testing: 12/03/2020

D. Results of Testing/Service

Yes	Is the audible alarm operational?
Yes	Is the visual alarm operational?
Yes	Were all sensors visually inspected, functionally tested, and confirmed operational?
N/A	If alarms are relayed to a remote monitoring station, is all communications equipment operational?
No	For pressurized piping systems, does the turbine automatically shut down if the piping secondary containment monitoring system detects a leak, fails to operate, or is electrically disconnected?
N/A	If yes: which sensors initiate positive shut-down?
N/A	Did you confirm positive shut-down due to leaks and sensor failure/disconnection?
Yes	For tank systems that utilize the monitoring system as the primary tank overfill warning device (i.e. no mechanical overfill prevention valve is installed), is the overfill warning alarm visible and audible at the tank fill point(s) and operating properly?
90%	If so, at what percent of tank capacity does the alarm trigger?
Yes	Was any monitoring equipment replaced? If yes, identify specific sensors, probes or other equipment replaced and list the manufacturer name and model for all replacement parts in Section E below.
Yes	Was liquid found in any secondary containment systems designed as dry systems?
Water	If yes, what type of liquid?
Yes	Was monitoring system set-up reviewed to ensure proper settings? Attach setup reports, if applicable.
Yes	Is all monitoring equipment operational per manufacturers specifications?

In section E. below, describe how and when these deficiencies were or will be corrected.

E. Comments

TLS 350 was tested per RP 1200 standards. Backup battery was measured at 3.6v Upon review of the setup, found Premium tank programmed for 4" floats. T1 Premium probe has 2" floats installed. Corrected setup to reflect equipment installed. L5 Regular fill sump VR 352 sensor failed to alarm when tested. Replaced with a VR 352 SN: 444325. New sensor was tested with passing results. Found L1 Premium STP sump sensor in liquid alarm on arival. Premium STP sump has a large amount of water in it. Notified manager to have sites maintenance to have the water removed. Probes were removed and tested for High product, overfill, high water alarm and high water warning. 2- VR 352 Fill sump sensors, 2- VR 352 STP sump sensors, 4- VR 208 UDC sensors, and 2- VR 303 annular sensors were tested and confirmed operational to manufacturer specifications. VR001 High level alarm was functionally tested to RP 1200 standards, by raising the product floats to 90% capacity, and was confirmed operational.

State Tank ID	Product	Manual Stick Readings(inches)	Gauge Readings(inches)	Difference
1	Premium	37.75	37.64	.11
2	Regular	67.50	67.31	.19

F. In-Tank Gauging / SIR Equipment

This section must be completed if in-tank gauging equipment is used to perform leak detection monitoring.

Yes	Has all input wiring been inspected for proper entry and termination, including testing for ground faults?
Yes	Were all tank gauging probes visually inspected for damage and residue buildup?
Yes	Was accuracy of system product level readings tested?
Yes	Was accuracy of system water level readings tested?
Yes	Were all probes reinstalled properly?
Yes	Were all items on the equipment manufacturer's maintenance checklist completed?

G. Line Leak Detectors (LLD):

Yes	For equipment startup or annual equipment certification, was leak simulated to verify LLD performance?
3 GPH	Leak Rate
Yes	Were all LLDs confirmed operational and accurate within regulatory requirements?
Yes	Was the testing apparatus properly calibrated?
N/A	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
Yes	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
Yes	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
Yes	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
Yes	For electronic LLDs, have all accessible wiring connections been visually inspected?
Yes	Were all items on the equipment manufacturer's maintenance checklist completed?

Automatic Line Leak Detector Test Results

Company Name: Jacksons Food Stores
Site Name: 627
Address: 15 East Sunset Way Issaquah, WA 98027
UST Site ID: 7691
Test Date/Time: 12/03/2020 07:13:29 am

Job ID Number: 95637
Technician Name: Chris Kuykendall
License Number: 383722020-U3
Expiration Date: 10/17/2022

Product: Premium Tank ID: 1 LD Type: Electronic	Make: Veeder Root Model: 8484 Serial#: 339764	Operating Pressure: 31 Holding Pressure: 19 Bleedback (ml): 100	**Result:** Pass
Additional Data For Electronic Leak Detectors Only # of tests run: 2 Alarm sound when 3GPH leak detected: Yes Handle signal while in alarm: No			
Product: Regular Tank ID: 2 LD Type: Electronic	Make: Veeder Root Model: 8484 Serial#: 339764	Operating Pressure: 27 Holding Pressure: 21 Bleedback (ml): 100	**Result:** Pass
Additional Data For Electronic Leak Detectors Only # of tests run: 2 Alarm sound when 3GPH leak detected: Yes Handle signal while in alarm: No			

Leak detector testing conducted in accordance with the procedures and limitations of the LDT 890 leak detector tester. A leak is simulated at the highest point in the line using the LDT 890 calibrated to 3 gph at a metering pressure of 10 psi. The owner or operator of the UST system is required to ensure any failed leak detector is replaced before placing the line back in service.

The results of any sampling, testing, or monitoring shall be maintained for at least five years, or for another reasonable period of time determined by the department or delegated agency, except that the results of tank tightness testing conducted in accordance with CFR 40 Part 280.44 shall be retained until the next test is conducted.

Comments: Tied in and tested from impacts in Disp 7/8. Upon tying in to Regular impact there was high bleedback (2400 ml). Replaced the siphon jet and pumped from each dispenser to purge air from the line. Both ALLD's passed the 3 GPH test in accordance with CFR 40 part 280.44.

Technician Name: Chris Kuykendall
Signature:

Date: 12/03/2020

Line Tightness Test Results

Company Name:	Jacksons Food Stores	Job ID Number:	95637
Site Name:	627	Technician Name:	Chris Kuykendall
Address:	15 East Sunset Way Issaquah, WA 98027	License Number:	383722020-U3
UST Site ID:	7691	Expiration Date:	10/17/2022
Test Date:	12/03/2020		

Line Tightness Test Data

Product:	Premium	Tank ID:	1	Start Time:	12:37
Approx Length:	150	STP MFG:	FE Petro 2 HP	End Time:	13:07
Size:	2	Operating Pressure:	31	Total Test Time:	30mins
Line Material:	FRP	Test Pressure:	48	Final Leak Rate:	.00500
Wall Type:	Single	Isolation Dispenser:	Impact Valve	Impact Valves Operational:	Yes
Boot Back:	Yes	Isolation Pump:	Ball Valve	Check Valve Location:	N/A
Line Type:	Pressure	Initial Cylinder Level:	.025	**Result:**	Pass
		Final Cylinder Level:	.0225		

Product:	Regular	Tank ID:	2	Start Time:	12:37
Approx Length:	200	STP MFG:	FE Petro 1.5 HP	End Time:	13:07
Size:	2	Operating Pressure:	27	Total Test Time:	30mins
Line Material:	FRP	Test Pressure:	48	Final Leak Rate:	.00500
Wall Type:	Single	Isolation Dispenser:	Impact Valve	Impact Valves Operational:	Yes
Boot Back:	Yes	Isolation Pump:	Ball Valve	Check Valve Location:	N/A
Line Type:	Pressure	Initial Cylinder Level:	.025	**Result:**	Pass
		Final Cylinder Level:	.0225		

Line tightness testing conducted in accordance with the procedures and limitations of the Acurite pipeline tester. A consistent leak rate of .01 gph or higher at 150% of normal operating pressure is considered a failure. The owner or operator of the UST system is required to report all failures to the appropriate agency within 24 hours.

The results of any sampling, testing, or monitoring shall be maintained for at least five years, or for another reasonable period of time determined by the department or delegated agency, except that the results of tank tightness testing conducted in accordance with CFR 40 Part 280.44 shall be retained until the next test is conducted.

Comments: Tied in and tested from impacts in Disp 7/8. Both lines passed the 0.01 GPH test in accordance with CFR 40 part 280.44.

Technician Name: Chris Kuykendall
Signature:

Date: 12/03/2020