DEPARTMENT OF ECOLOGY
State of Washington

WA LEAK TESTING CHECKLIST
FOR UNDERGROUND STORAGE TANKS (USTS)

UST ID #: 100434
County: Benton

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:** **03/22/2021**

I. UST FACILITY	II. CERTIFIED SERVICE PROVIDER
Facility Compliance Tag #: A0981	Service Provider Name: Keith Lawty
UST ID #: 100434	Company Name: Northwest Tank & Environmental Services, Inc.
Site Name: Richland Yacht Club	Address: 21120 Hwy 9 SE
Site Address: 350 Columbia Point Drive	City: Woodinville State: WA Zip: 98072
City: Richland	Phone: (800) 742-9620 Email: info@nwtank.com
County: Benton	ICC Certification Type: Tightness Testing ICBO- U3
Site Phone: 509-430-8094	ICC Cert. #: 8589-U3 Exp. Date: 10/12/2022

III. UST OWNER/OPERATOR

Name: Richland Yacht Club Phone: 509-943-6133 Email: roykeck@charter.net

IV. UST SYSTEM INFORMATION

Observations on test day.

1. Tank ID #, as registered with Ecology or identified on ATG	1
2. Tank Status. OP (Operational); TC (Temporary Closure)	OP
3. Product stored, including % of alternative fuels	Regular
4. Tank or compartment capacity (gallons)	1990
5. Product pumping/flow method. Note as: P (Pressurized); NS (Non-safe Suction); SS (Safe Suction); Si (Siphon); GR (Gravity Fed)	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	CLD
7. Pipe material and construction observed	SWS

V. REASON FOR SERVICES PERFORMED

(Check all that apply)

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

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:**10/28/2022**	1			See notes in LLD testing section. Testing performed as per RP1200 standards.
Line Tightness Test **(attach data)** Test method used: **Acurite** Test method cert.exp.date: **8/9/2022**	1			See notes in Line Tightness testing section.
Electronic Monitoring System Tests Controller.mfr/model:**V-R TLS 350** Controller cert.exp.date: **11/9/2022** Monitor/controller Probe Sump Sensor Functionality Tank Annular Sensor Functionality	 1 1			See notes in Monitor Insp. section. Testing performed as per RP1200 standards. . See notes in Monitor Insp. section. Testing performed as per RP1200 standards. See notes in Monitor Insp. section. Testing performed as per RP1200 standards.
OverfillEquipment Test ☐ Auto shutoff ☑ Ball float valve ☐ Overfill alarm		1		See notes in Job Log, attached form. Testing performed as per RP1200 standards.
Fill/Spill Bucket Test **(attach data)**	1			See notes in Sump Test testing section. Testing performed as per RP1200 standards.
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 - Line Leak Detector testing performed as per RP1200 standards.

Performed LLD testing for sole grade/tank at single dispenser on boat dock.

Line Test:
Comments - Line Tightness testing performed at functional element on turbine.

Sump Test:
Comments - Hydrostatic testing of Fill Spill Bucket performed as per RP1200 standards.

Cleaned bucket after testing.

Tank Monitor:
--Tank_monitors--
#1: 3/22/2021:

Testing of all monitoring equipment performed as per RP1200 standards.

Removed one ATG probe to clean, inspect, and test; working.
Verified the following alarms for 1 ATG probe:
-High Water Warning
-High Water Alarm
-Overfill Alarm
-High Product Alarm

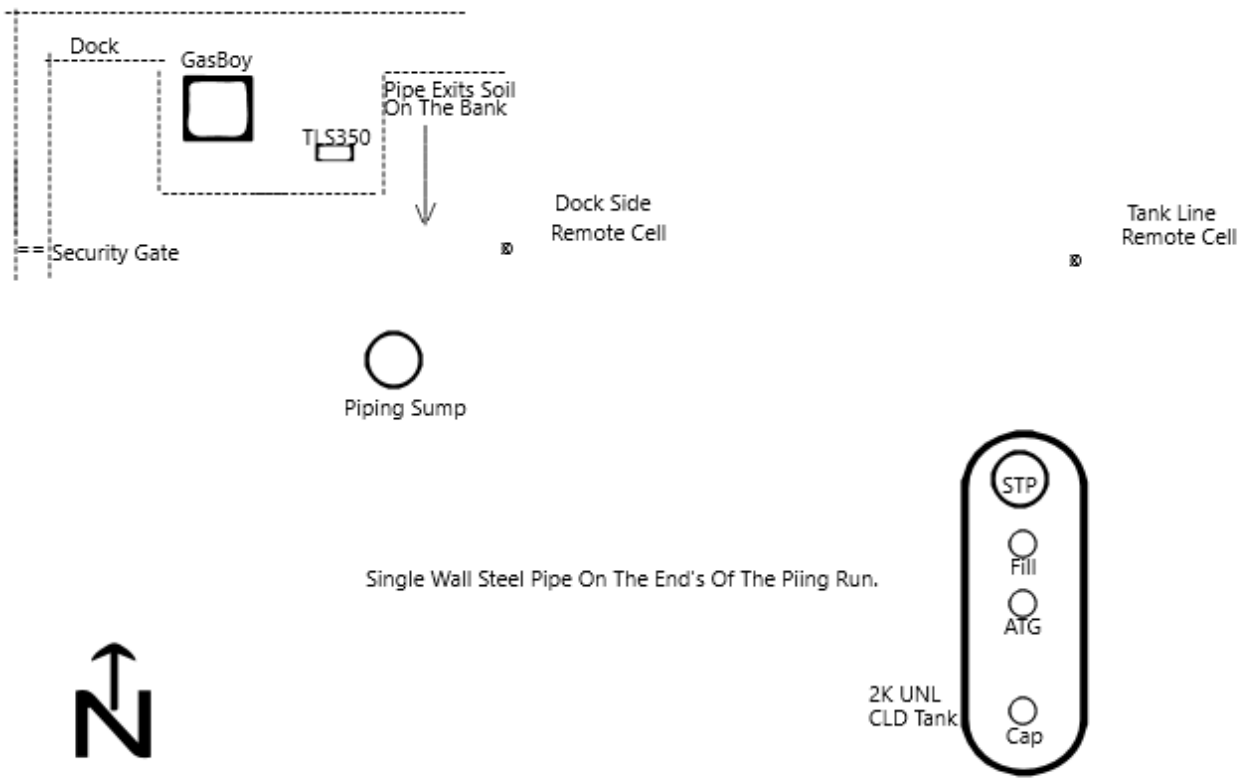
Battery tested; within spec.

No sensors on site.

Compared manual fuel level reading with that from the monitor.

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 requirements, 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
03/22/2021		Keith Lawty - Tech
03/22/2021		Kim DeTienne

Date	Signature of Tank Owner or Authorized Representative	Print or Type Name

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: Kim Detienne
Make / Model Monitoring System: V-R TLS 300

Company Name: Richland Yacht Club
Site Address: 350 Columbia Point Drive
UST Site ID: 100434
Date Of Testing: 03/22/2021
Site Name: Richland Yacht Club
City, State, ZIP: Richland, WA 99352-4370
Facility Phone Number: 509-430-8094
Serial #: F11178195805001

B. Inventory of Equipment Tested/Certified

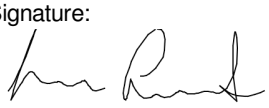
Tank #: 1 Regular	
In-Tank Gauging Probe	Mag 1 Probe
Annular Space or Vault Sensor:	N/A
Piping Sump / Trench Sensor:	N/A
Fill Sump Sensor:	N/A
Mechanical Line Leak Detector:	FX1V
Electronic Line Leak Detector:	N/A
Tank Overfill / High Level Sensor:	OPW BF
Other:	

Dispenser ID:	1
Dispenser Containment Sensors Model:	N/A
Shear Valves: Yes	**Floats & Chains:** No

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: Keith Lawty
Certification Number:
Expiration Date:
Signature:



Testing Company Name: Northwest Tank & Environmental Services, Inc.
Address: 21120 Hwy 9 SE Woodinville, WA 98072
Date of Testing: 03/22/2021

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?
N/A	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?
N/A	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?
N/A	If so, at what percent of tank capacity does the alarm trigger?
No	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.
No	Was liquid found in any secondary containment systems designed as dry systems?
N/A	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

3/22/2021: Testing of all monitoring equipment performed as per RP1200 standards. Removed one ATG probe to clean, inspect, and test; working. Verified the following alarms for 1 ATG probe: -High Water Warning -High Water Alarm -Overfill Alarm -High Product Alarm Battery tested; within spec. No sensors on site. Compared manual fuel level reading with that from the monitor.

State Tank ID	Product	Manual Stick Readings(inches)	Gauge Readings(inches)	Difference
1	Regular	55.75	55.68	.07

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?
Yes	For mechanical LLDs, does the LLD restrict product flow if it detects a leak?
N/A	For electronic LLDs, does the turbine automatically shut off if the LLD detects a leak?
N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system is disabled or disconnected?
N/A	For electronic LLDs, does the turbine automatically shut off if any portion of the monitoring system malfunctions or fails a test?
N/A	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: Richland Yacht Club
Site Name: Richland Yacht Club
Address: 350 Columbia Point Drive Richland, WA 99352-4370
UST Site ID: 100434
Test Date/Time: 03/22/2021 07:53:34 am

Job ID Number: 98374
Technician Name: Keith Lawty
License Number: 8589-U3
Expiration Date: 10/12/2022

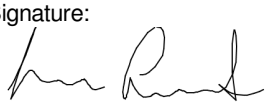
Product: Regular Tank ID: 1 LD Type: Mechanical	Make: Red Jacket Model: FX1V Serial#: 5910	Operating Pressure: 29 Holding Pressure: 28 Bleedback (ml): 975	**Result:** Pass
Additional Data For Mechanical Leak Detectors Only Metering Pressure: 13 Step Through Time: 5			

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: Line Leak Detector testing performed as per RP1200 standards. Performed LLD testing for sole grade/tank at single dispenser on boat dock.

Technician Name: Keith Lawty
Signature:



Date: 03/22/2021

Line Tightness Test Results

Company Name:	Richland Yacht Club	Job ID Number:	98374
Site Name:	Richland Yacht Club	Technician Name:	Keith Lawty
Address:	350 Columbia Point Drive Richland, WA 99352-4370	License Number:	8589-U3
UST Site ID:	100434	Expiration Date:	10/12/2022
Test Date:	03/22/2021		

Line Tightness Test Data

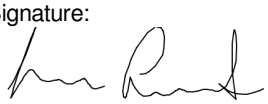
Product:	Regular	Tank ID:	1	Start Time:	09:28
Approx Length:	300	STP MFG:	FE Petro 3/4 HP	End Time:	09:58
Size:	1.5	Operating Pressure:	29	Total Test Time:	30mins
Line Material:	SWS	Test Pressure:	44	Final Leak Rate:	.00000
Wall Type:	SW	Isolation Dispenser:	Impact Valve	Impact Valves Operational:	Yes
Boot Back:	N/A	Isolation Pump:	Check Valve	Check Valve Location:	N/A
Line Type:	Pressure	Initial Cylinder Level:	0.0750	**Result:**	Pass
		Final Cylinder Level:	0.0750		

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: Line Tightness testing performed at functional element on turbine.

Technician Name: Keith Lawty
Signature:



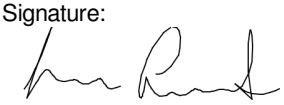
Date: 03/22/2021

Certificate Of Precision Containment Sump Testing

Company Name:	Richland Yacht Club	Testing Company Name:	Northwest Tank & Environmental Services, Inc.
Site Name:	Richland Yacht Club	Address:	21120 Hwy 9 SE
Address:	350 Columbia Point Drive Richland, WA 99352-4370	City/State/Zip:	Woodinville, WA 98072
Test Date/Time:	03/22/2021 04:00:00 pm	PH: (800) 742-9620	FAX: (425) 645-7881
Service Order#:	98374		http://www.nwtank.com
Customer PO#:	COD		
Test Method:	Hydrostatic		
UST Site ID:	100434		

Test #	Component Location	MFR	Start Time	End Time	Start Test (inches)	End Test (inches)	Sump Type	SW or DW Sump/Bucket	DW or SW Lines	Measured Loss	Results
1	T1(Unl.)	EBW	08:32:00	09:32:00	11:00	11:00	Fill Spill Bucket	SW	SW	0	Pass

Comments:
Hydrostatic testing of Fill Spill Bucket performed as per RP1200 standards. Cleaned bucket after testing.
Testing performed by: Keith Lawty
Signature:



Date: 03/22/2021

NORTHWEST TANK & ENVIRONMENTAL SERVICES, INC.

UST OVERFILL EQUIPMENT INSPECTION
AUTOMATIC SHUTOFF DEVICE AND BALL FLOAT VALVE

Facility Name: Richland Yacht Club			Owner:			
Address: 350 Columbia Pt. Dr.			Address:			
City, State, Zip Code: Richland, WA 99352			City, State, Zip Code:			
Facility I.D. #:			Phone #:			
Testing Company: Northwest Tank			Phone #:		Date:	
This data sheet is for inspecting automatic shutoff devices and ball float valves. See PEI/RP1200, Section 7 for inspection procedures.						
Product Grade	UE-92					
Tank Number	1					
Tank Volume, gallons	1990					
Tank Diameter, inches	64"					
Overfill Prevention Device Brand	OPW BF					
Type	☐ Automatic Shutoff Device ☑ Ball Float Valve	☐ Automatic Shutoff Device ☐ Ball Float Valve	☐ Automatic Shutoff Device ☐ Ball Float Valve	☐ Automatic Shutoff Device ☐ Ball Float Valve	☐ Automatic Shutoff Device ☐ Ball Float Valve	☐ Automatic Shutoff Device ☐ Ball Float Valve
AUTOMATIC SHUTOFF DEVICE INSPECTION						
1. Drop tube removed from tank?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2. Drop tube and float mechanisms are free of debris?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3. Float moves freely without binding and poppet moves into flow path?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4. Bypass valve in the drop tube is open and free of blockage (if present)?	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present	☐ Yes ☐ No ☐ Not Present
5. Flapper is adjusted to shut off flow at 95% capacity?*	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
A "No" to any item in Lines 1-5 indicates a test failure.						
BALL FLOAT VALVE INSPECTION						
1. Tank top fittings are vapor-tight and leak-free?	☑ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
2 Ball float cage free of debris?	☑ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
3. Ball is free of holes and cracks and moves freely in cage?	☑ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
4. Vent hole in pipe is open and near top of tank?	☑ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
5. Ball float pipe is proper length to restrict flow at 90% capacity?**	☐ Yes ☑ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
A "No" to any item in Lines 1-5 indicates a test failure.						
Test Results	☐ Pass ☑ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail	☐ Pass ☐ Fail

* Use manufacturer's suggested procedure for determining if automatic shutoff device will shut off flow at 95% capacity.
** Use manufacturer's suggested procedure for determining if flow restriction device will restrict flow at 90% capacity.

Comments: Shutoff occurs after 90%.

Tester's Name Keith Lawty Tester's Signature