

BEFORE THE
WASHINGTON UTILITIES & TRANSPORTATION COMMISSION

UW-240151

CASCADIA WATER, LLC

September 26, 2024

Direct Exhibit of Culley J. Lehman

WATER STORAGE TANK AND INSPECTION REPORT

Exh. CJL-3



Water Storage Tank Inspection Report

Terms of Reference: ACI 201.1R-08, Guide for Conducting a Visual Inspection of Concrete in Service

Client/Operator: Cascadia Water		Client Representative: Culley Lehman		Inspection Date: 02/23/2022	
Tank ID Number: "Big Tank"		Tank Location: Ridge View Drive, Sequim, WA			
ROV Pilot: Troy Gessner					
ROV System Type & Number: VR Pro 4 #J10030				ROV Accessory Equipment: Manipulator	
Tank Construction:	Weld ed Steel	Bolted Steel	Concre te X	Composite	
Tank Type: Partially buried concrete bunker		Tank Dimensions: N/A		Tank Capacity: N/A	

General Description: Cast in place concrete box reservoir located in a residential neighborhood

Safe Roof Access? Yes, roof elevation 3'-4'	Safe Vehicle Access? Yes, safe access to large parking area adjacent to reservoir
---	---

Access Hatch Type and Size:
Describe Visible External Anomalies: Visual evidence of water leakage on reservoir external walls
General Safety Observations:
General Condition Comments:

Concrete Tanks

Internal Ladder	None
Internal Surface Condition	
Cracking:	Significant diagonal cracking with ¼" observed gaps noted on internal support wall. Significant diagonal cracking with ¼" observed gaps noted at internal corners of concrete box structure. Moderate D-cracks noted on internal surfaces of external support walls with plant roots observed growing through the cracks.
Additional Distress Indicators:	None noted
Textural Features:	None noted
Rust Staining:	None noted
Erosion:	None noted
Other Observations:	
General Condition:	
Joint Sealant/Filler:	

Observed Anomalies: See Attached Map of Anomaly Locations

Definitions: From ACI 201.1R-08, sec. 2.1.2.4, "Diagonal Crack"- in a flexural member, an inclined crack, caused by shear stress, usually at approximately 45 degrees to the axis; or a crack in a slab, not

parallel to either the lateral or longitudinal directions (see figures 2.1.2.4(a) & (b)).



(a)



(b)