

Aboveground Storage Tank Inspection Services

- TankTek offers aboveground storage tank (AST) system inspection services that can assist organizations satisfy regulatory requirements for certified inspections.
- TankTek's inspectors are certified by the Steel Tank Institute (STI) for inspecting shop fabricated ASTs, portable containers and small field-erected tanks, in accordance with *STI Standard SP-001 (Standard for the Inspection for Aboveground Storage Tanks)*.
- ASTs and their ancillary components deteriorate with time. Regular inspections are required to ensure tanks are suitable for continued use and that all parts of the tank system are installed correctly and functioning properly.
- The purpose of an AST system inspection is to gather accurate and comprehensive data on the condition of the tank, and establish a baseline of that point in time for future comparisons.
- Inspection requirements are site-specific. Considerations such as facility size, tank type (single or double wall), tank position (vertical or horizontal) and size are some of the items that must be taken into account to identify inspection requirements.



TankTek's AST Inspection Services include:

- Corrosion evaluations
- Coating inspections including holiday testing
- Vacuum box testing for leaks in floors and floating roofs
- Normal and emergency vent selection
- Inspection of valves, piping, secondary containment, overfill protection, level monitoring, etc.
- Cathodic protection testing.

TankTek's petroleum contracting, engineering and environmental services related to AST Inspections include: AST installations, AST removals, Petroleum Hydrocarbon impact assessments, and precision leak testing.

About STI SP-001 (Standard for the Inspection of ASTs)

- Applies to shop fabricated ASTs, portable containers, and small field erected tanks.
- Provides minimum inspection requirements and evaluation criteria for continued AST service until next periodic inspection.
- Requires that personnel completing AST inspections must be STI SP-001 Certified or API 653 Certified AND meet all local requirements.
- Specifies inspection schedule for AST systems, based on AST type, size, type of installation, corrosion rate and previous inspection history. ASTs are divided into three categories:



Category 1: ASTs with spill control and Continuous Release Detection Method (CRDM)*

Category 2: ASTs with spill control and no CRDM

Category 3: ASTs without spill control or CRDM

Table of Inspection Schedules—Shop Fabricated ASTs (STI SP-001)

Volume of AST (U.S. Gallons)	Category 1	Category 2	Category 3
0 to 1,100	P	P	P, E & L (10)
1,101 to 5,000	P	P, E & L (10)	P, E & L (5), I (10) or P, L (2) E (5)
5,001 to 30,000	P, E (20)	P, E (1), I (20) or P, E (5), L (10)	P, E & L (5), I (10) or P, L (1), E (5)
30,001 to 50,000+	P, E (20)	P, E & L (5), I (15)	P, E & L (5), I (10)

P = Periodic AST Inspection
L = Leak Test
(#) = Frequency in Years

E = Formal External Inspection (by Certified AST Inspector)
I = Formal Internal Inspection (by Certified AST Inspector)

- STI SP-001 requires that a Certified AST Inspector determines the suitability for continued service of the AST, based on the results of the formal inspection (internal and/or external).
- Recommended actions as a result of the inspection results are provided in STI SP-001.