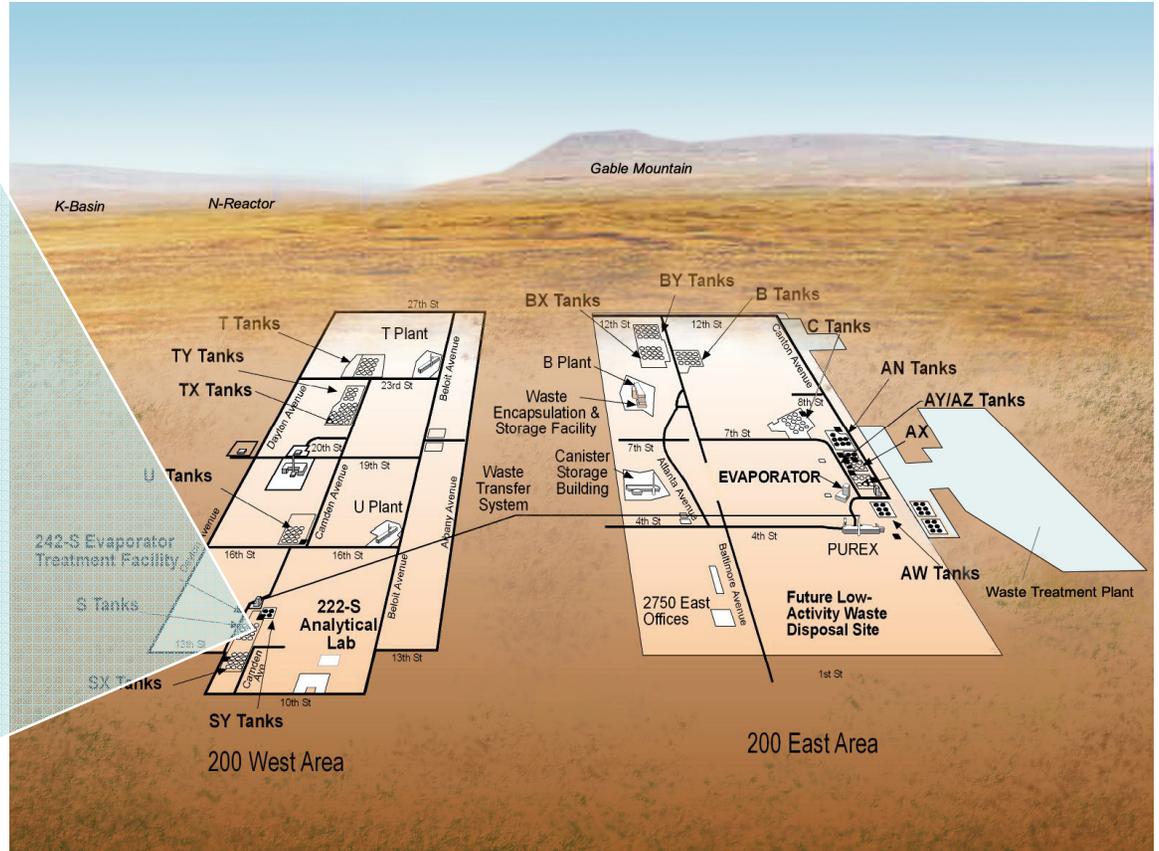


S-102 Event and Investigation Overview



S-Farm

S-102



200 Area Tank Farms

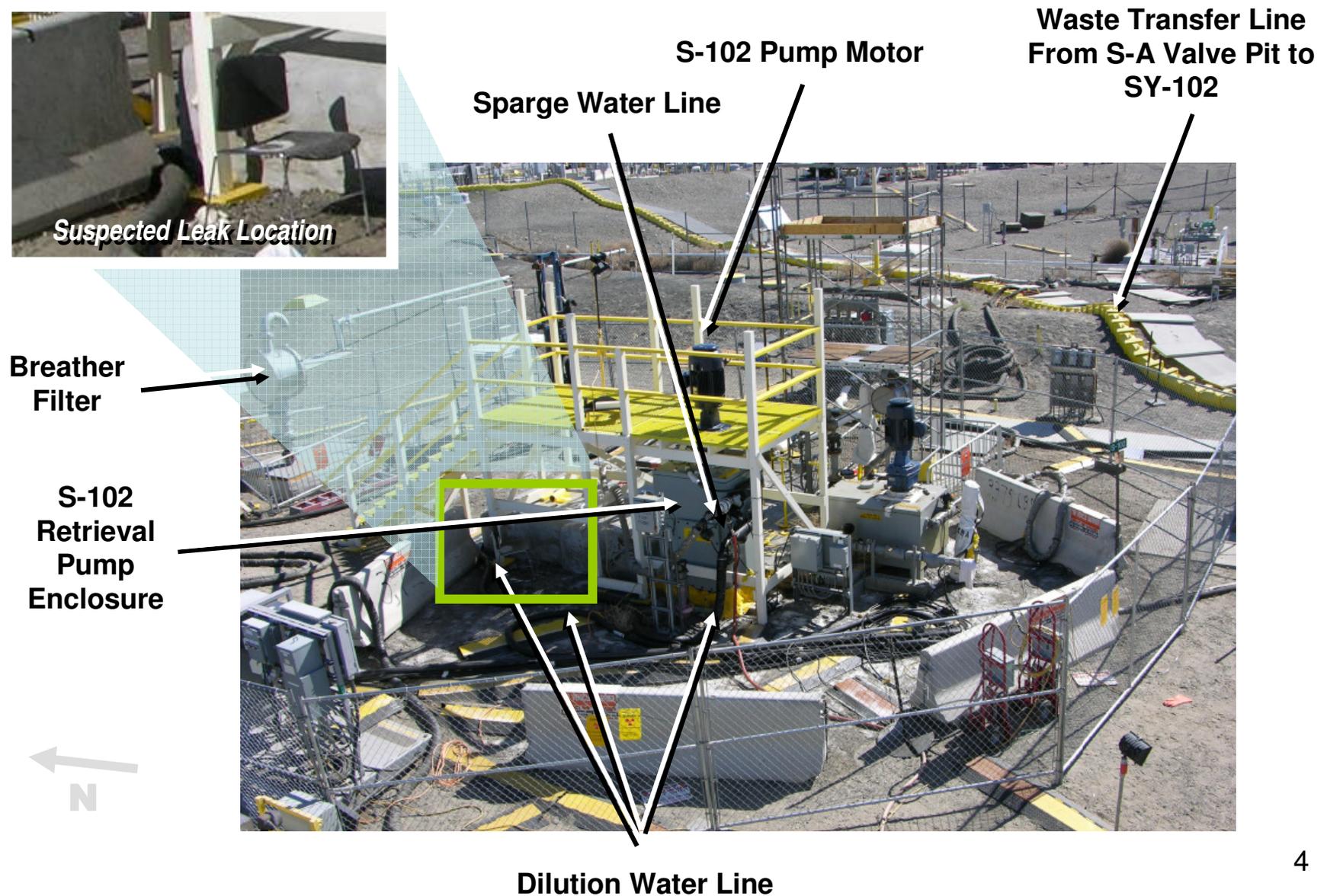
Spill Area



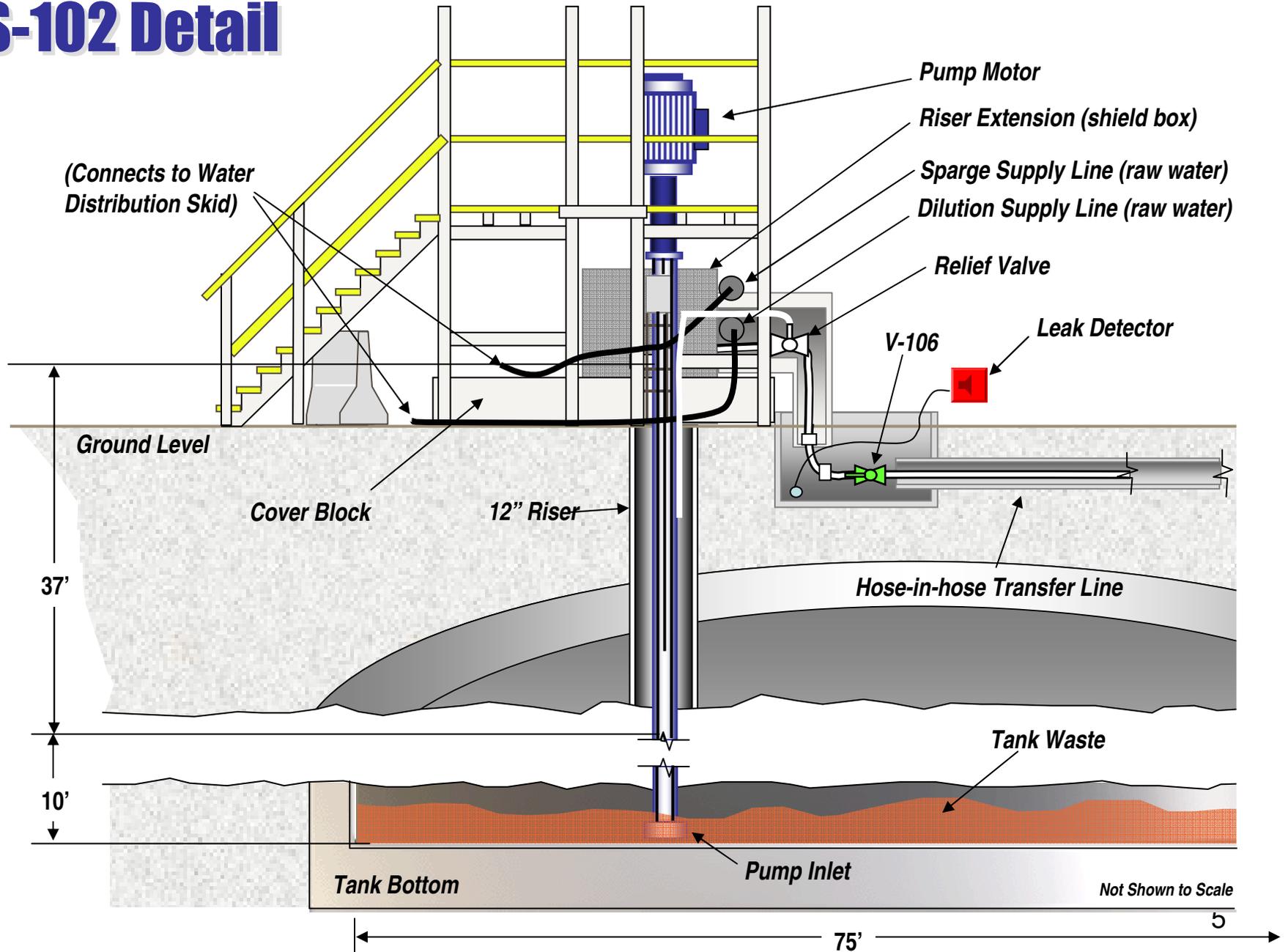
Spill Area



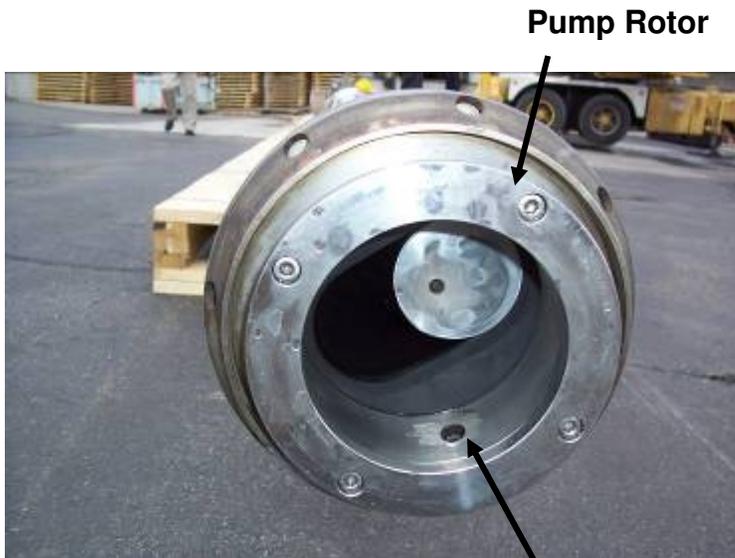
S-102 Event Site Overview



S-102 Detail

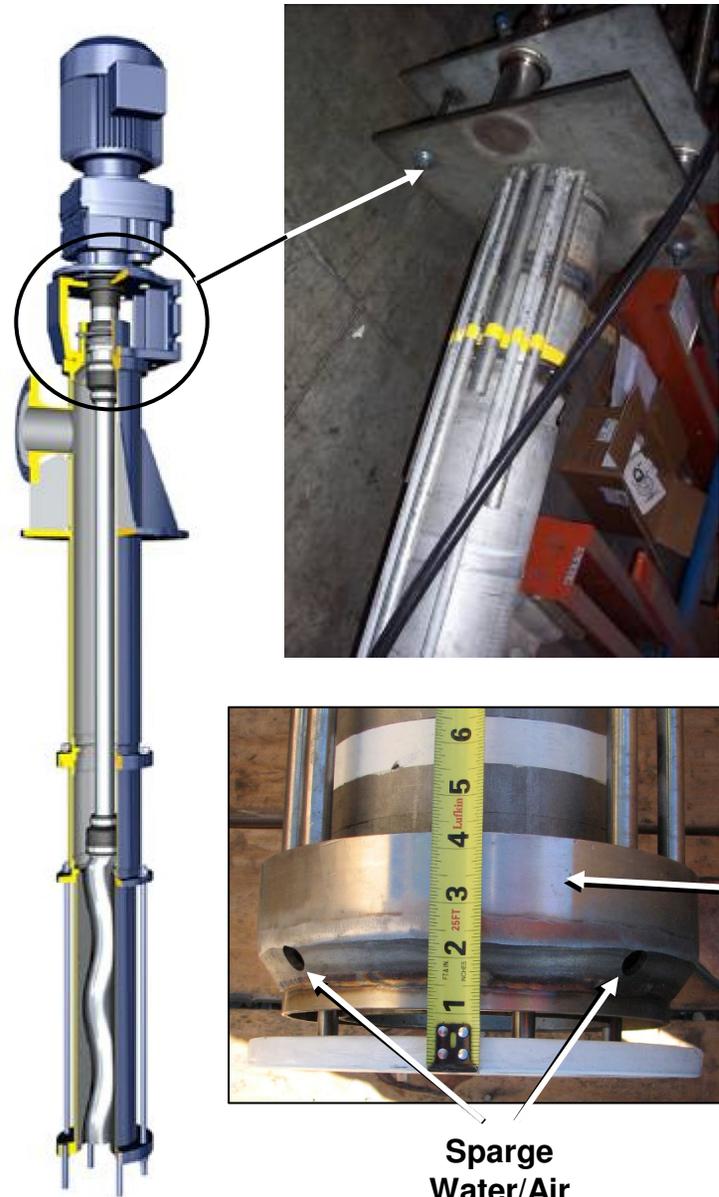


Pump Inlet Nozzle



Pump Rotor

Dilution Water Supply Port

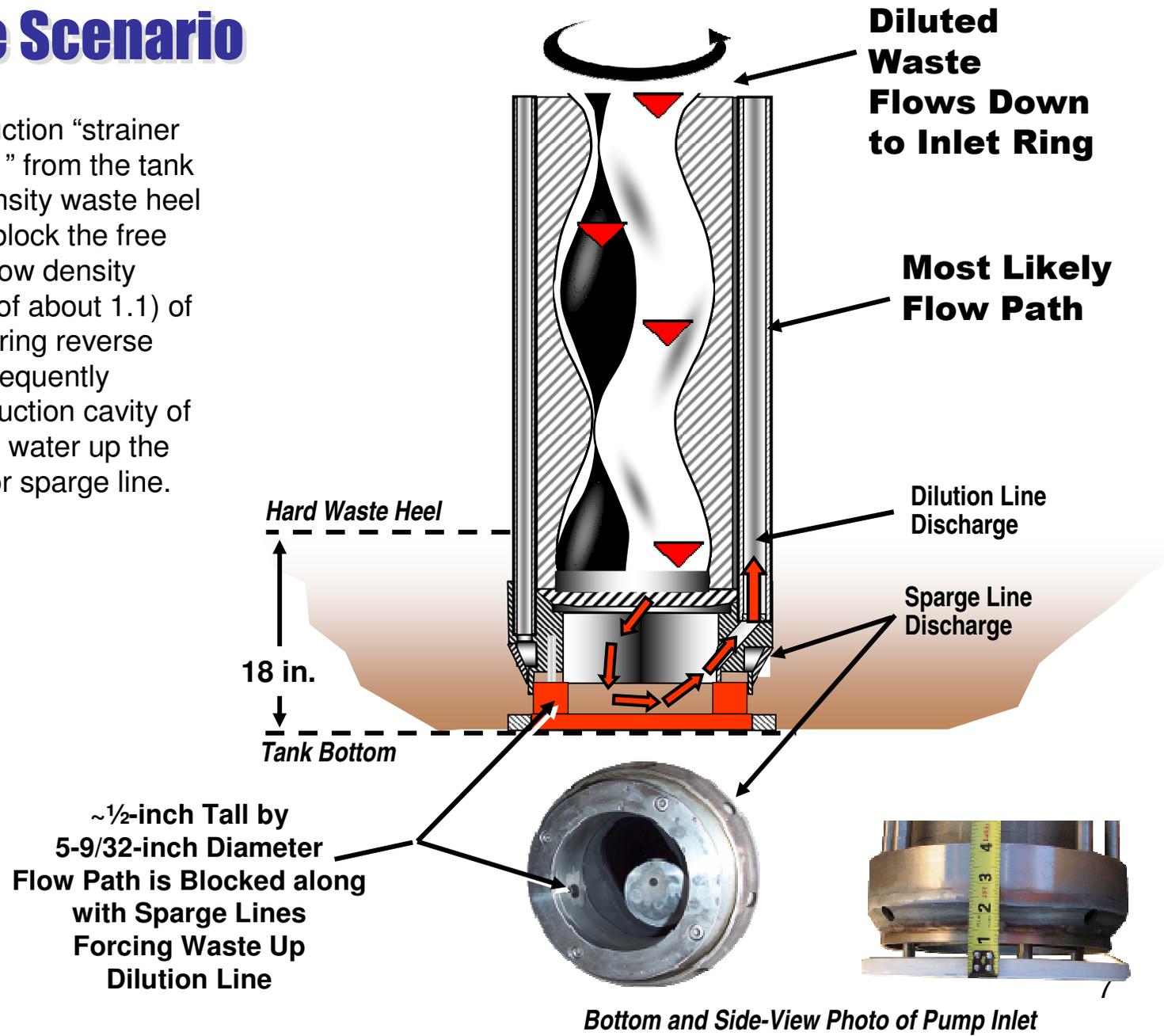


Sparge Ring

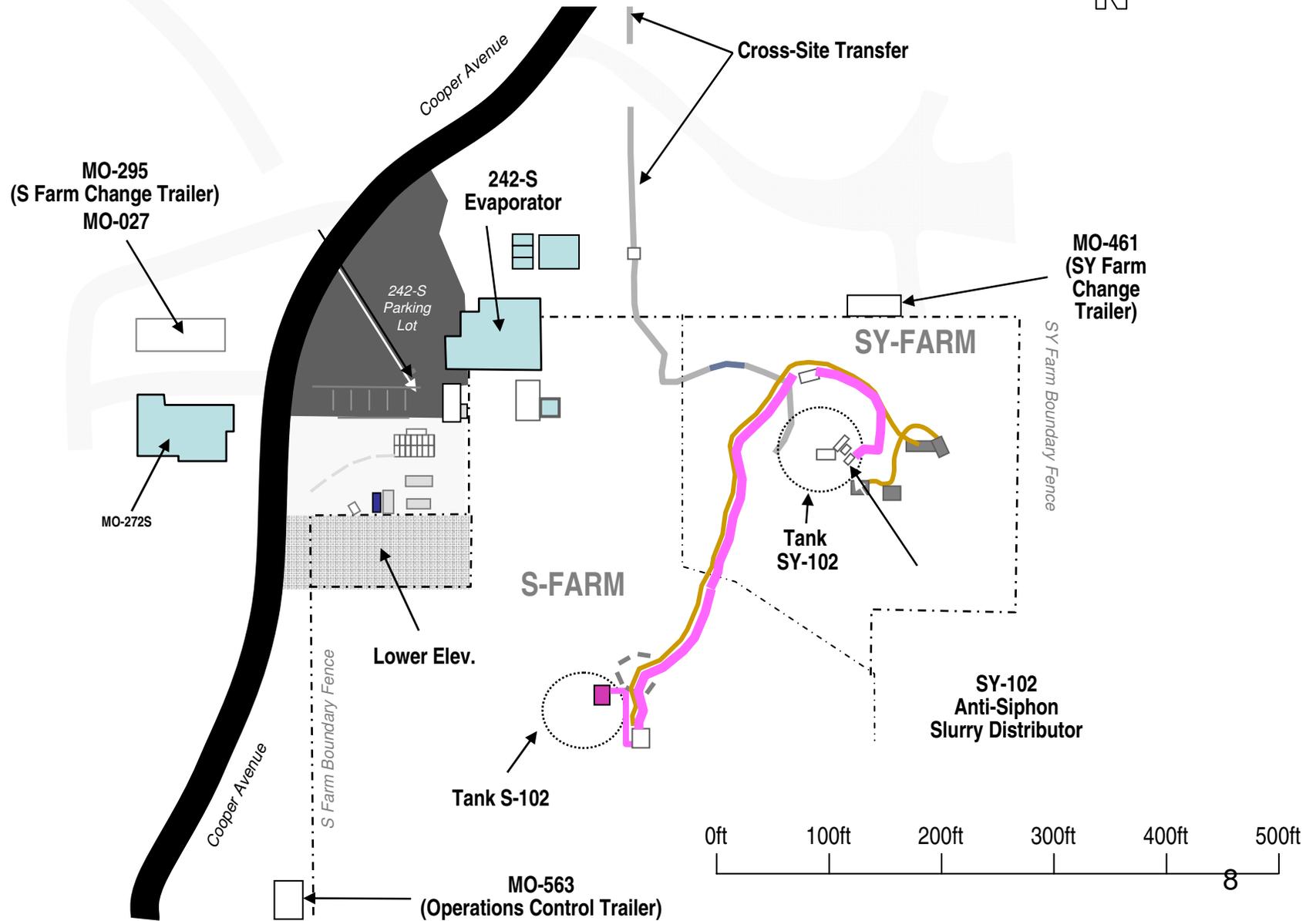
Sparge Water/Air Distribution Ports

Probable Scenario

With the pump suction “strainer plate” within 1/2 - 1” from the tank floor, the high density waste heel was sufficient to block the free flow of relatively low density (Specific Gravity of about 1.1) of transfer waste during reverse rotation and subsequently pressurized the suction cavity of the pump, forcing water up the dilution line and/or sparge line.



S-102 Event Site



Immediate Actions

- Spill area stabilized (Soil Sement and Safeguard)
- Spill area surrounded by locked fence
 - Postings for: high radiation, high contamination, respiratory protection required for entry.
- Spill area monitored for potential spread of contamination
 - Surveys every four hours at high radiation/high contamination area boundary
 - Weekly samples inside the fenced area including contamination and dose rate surveys
- Industrial Hygiene monitoring