How Do I Operate in Compliance?





Tank Compliance and Weights and Measures

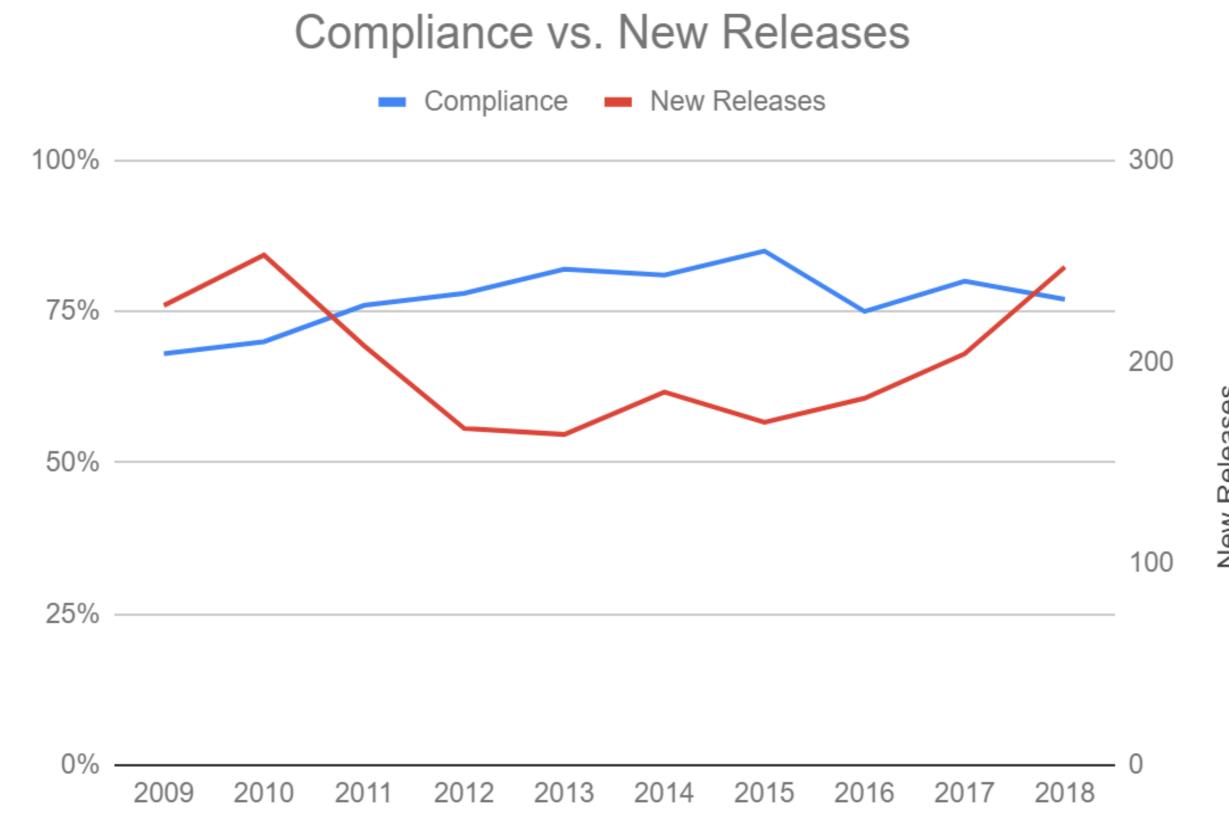
Division of Oil and Public Safety 2019 Outreach



Today's Speakers

- Zach Hope AST and UST Compliance
- Scott Simmons Weights & Measures Program
- Vinny Secondo Enforcement
- **Brett Redd Monthly Inspection Requirements**
- Hans Schmoldt Cathodic Protection
- Bill Hickman What's Coming in 2020

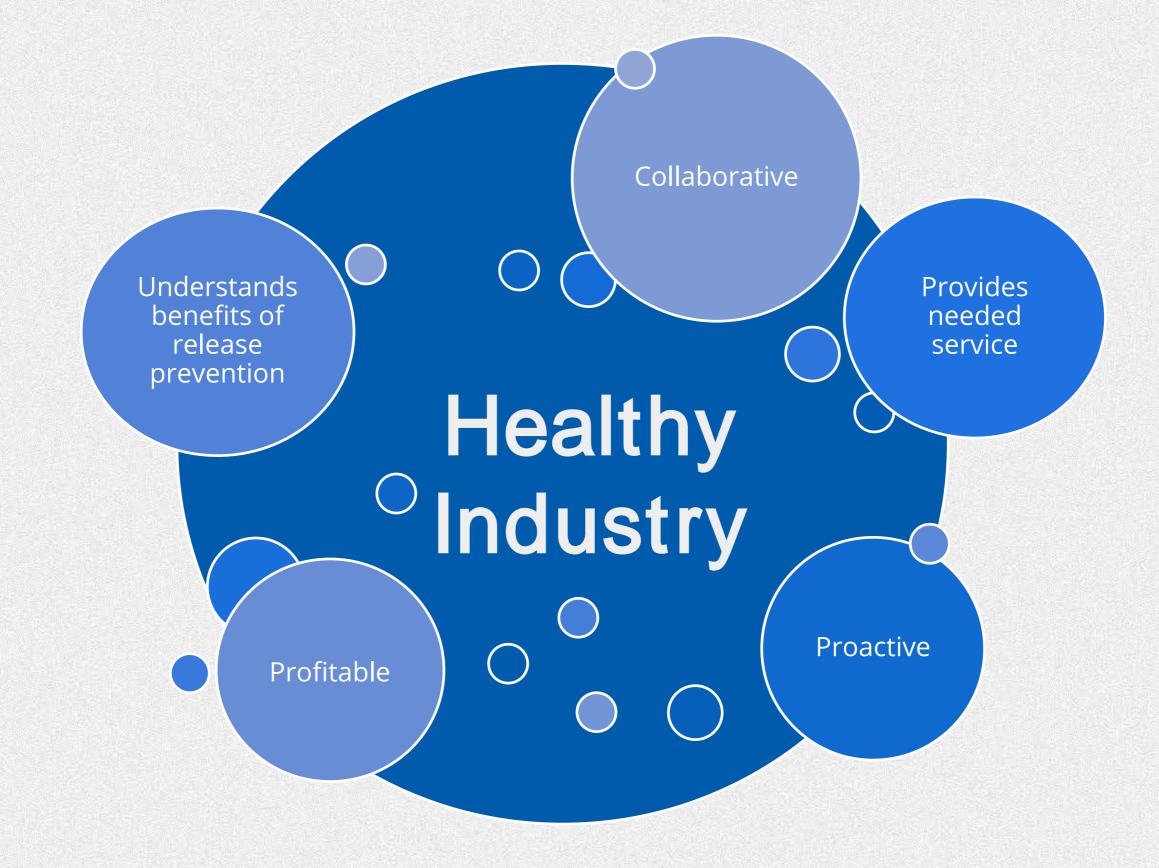


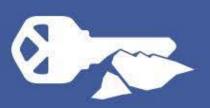




Compliance %

New Releases





OPS Inspections

Increased announced inspections

Educating tank owners

Discussing high-risk components and situations





OPS Inspections Include Record Requests

Annual Compliance Package (ACP) has been eliminated

OPS inspections now include record requests



Division of Oil and Public Safety - Petroleum Program 633 17th St, Suite 500, Denver, CO 80202-3610 cdle_oil_inspection@state.co.us www.colorado.gov/ops I (303)318-8525

Dear Marc Westfall,

The Division of Oil and Public Safety (OPS) is planning an inspection of the petroleum storage tank system at 7-Eleven #33052 at 1595 W 47th Ave, Denver, CO 80211. Please maintain the following documents on site or feel free to email them to me within two weeks:

Tank Release Detection: (INT-S) Last 12 months of sensor alarm reporting logs and ATG failure alarm reports.

Piping Release Detection: (INTL-S) Last 12 months of sensor alarm reporting logs and ATG failure alarm reports.

Tank Corrosion Protection: n/a

Piping Corrosion Protection: n/a

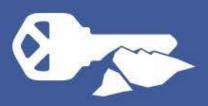
Leak Detector Testing: (LDO) Most recent annual leak detector operations test.

Overfill Prevention: n/a

Monthly Inspection: (MCI) Provide UST Monthly Inspection Checklist.

Annual Inspection: (ACI) Provide Annual Compliance Inspection Checklist.

A/B Operator (for USTs): (ABO) Provide A/B Operator Designation Form.



Compliance Records

Monthly tank release detection Monthly or annual piping release detection Leak detector testing Corrosion protection Overfill prevention (ullage) Monthly and annual inspections A/B Operator

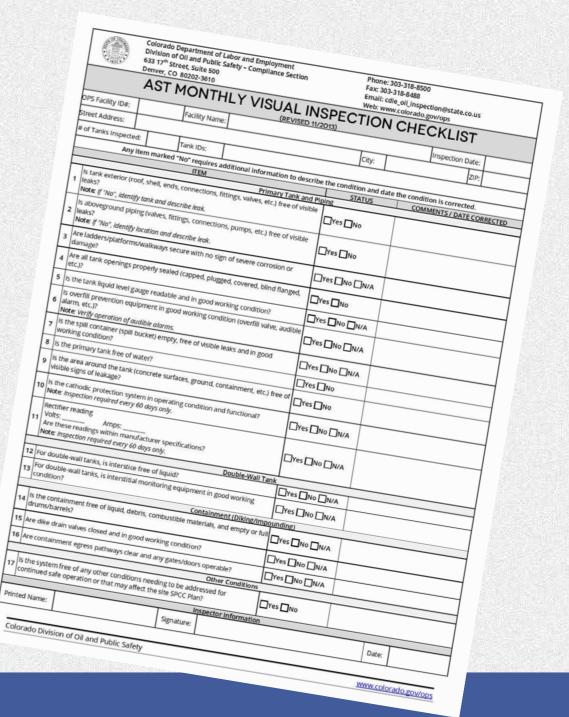


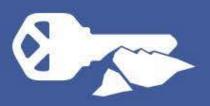


Owner Compliance Inspections

Best educational opportunity

Areas with visible piping need to be inspected monthly or have sensors



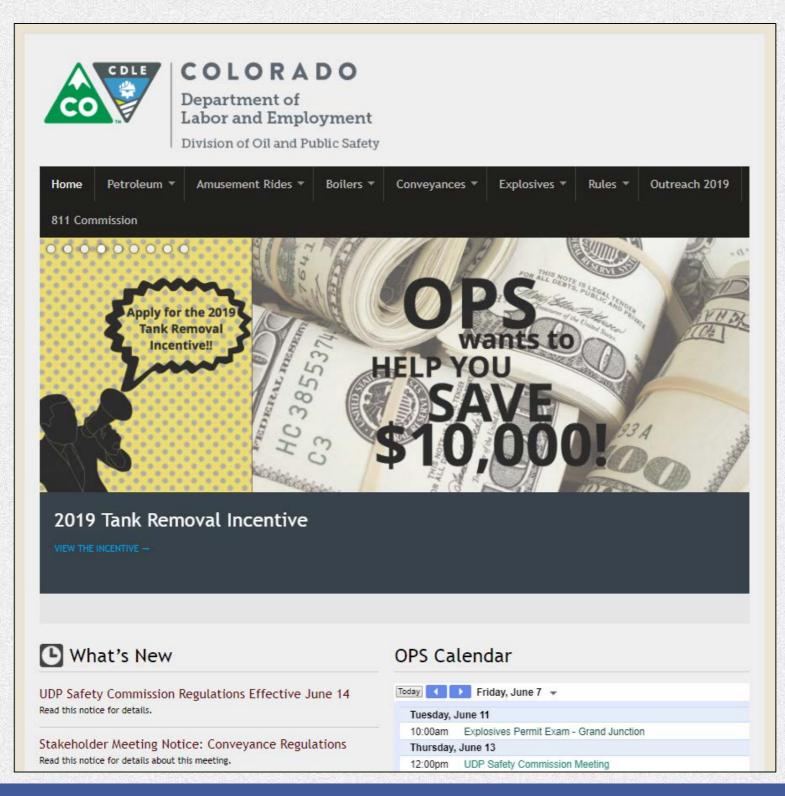


New Documentation Requirements by 2020





The OPS Website is a Resource for You





Weights & Measures and Product Quality *"Ensuring equity in the marketplace"*



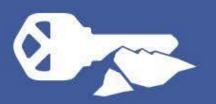


- Colorado statutes and regulations require that any meter or mechanical device used for the measurement of oil, gasoline, liquid fuels, liquefied petroleum gas (LPG), or compressed or liquefied natural gas (CNG/LNG) be proved in a manner acceptable to the director of the division of oil and public safety prior to use
- These devices must also be inspected, tested and maintained in accordance with the provisions the National Institute of Standards and Technology (NIST) Handbooks 44 and 130



In order to ensure "equity in the marketplace," our petroleum inspectors routinely inspect and test approximately:

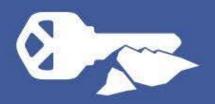
- 50,000 Retail motor fuel devices (gas pumps)
- 800 Vehicle tank meters (bulk fuel delivery trucks)
- 150 Aircraft refueling vehicle tank meters (bulk fuel trucks)
- 500 LP-Gas meters (bobtail delivery trucks and dispenser meters)
- 20 Compressed natural gas retail motor fuel devices



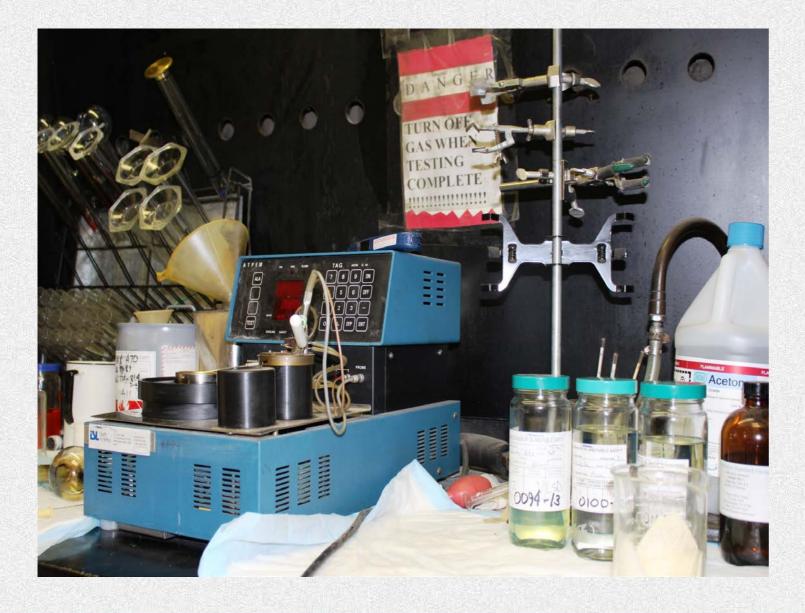
OPS Fuel Quality Laboratory analyzes periodic fuel samples

- Consumer complaints
- > OPS routine sampling program
- > CDPHE sampling programs
- Tests performed:
 - Water content
 - Flash point
 - Sulfur content
 - > Octane

- Distillation
- Ethanol content
- ≻ Etc.



Product Quality

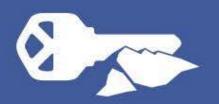






2018 Tes	st Results	
Total Samples Analyzed:	(506 CDPHE)	1357
Total Non-pass Results:		238
Sample Failure Rate:		17.5%

- Storage tank regulations require owners/operators to measure water in the bottom of tanks, to the nearest one-eighth of an inch, at least every 30 calendar days – Water shall not exceed ¼ inch
- Properly identify tank contents



LPG, CNG/LNG and Hydrogen

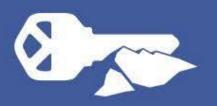
Alternative Fuels and Gases - Installation & Operation





LPG, CNG/LNG and Hydrogen

- Everyone here is aware of OPS's role in regulating underground and aboveground storage tanks
- Some lesser known aspects of our operation relate to the regulation of the storage and retail sale of alternative fuels and fuel gasses
- These fuels include:
 - LP-Gas (propane, butane, etc.)
 - Compressed Natural Gas (CNG) and Liquefied Natural Gas (LNG)
 - Hydrogen (the newest product added to our program)



Liquefied Petroleum Gas (LPG)

- The Division has regulated LPG since the early 1940's
- The primary LPG product used in Colorado is propane, though butane has experienced a renewed use in recent years due to the cannabis THC and CBD oil extraction process
- Propane is primarily used as a fuel gas for domestic use (heating, cooking, heating water) in rural areas where natural gas is unavailable
- It is also used in barbeque grills and as an alternative fuel for motor vehicles



LPG Regulations

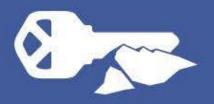
- The Division regulates virtually all aspects of the storage and use of LP-Gases
- The Colorado LP-Gas Regulations (7 CCR 1101-15) are composed of 5 articles including:
 - General Provisions
 - Installation
 - Delivery and Dispensing Training Requirements
 - Accident Reports and Investigations



LPG Regulations

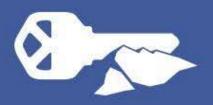
Liquefied Petroleum Gas (LP-Gas)

- The **General Provisions** primarily focus on the National Fire Protection (NFPA) and National Institute of Standards and Technology (NIST) codes that we have adopted by reference including:
- NFPA 58, Liquefied Petroleum Gas Code, 2017 edition
- NFPA 54, National Fuel Gas Code, 2015 edition
- NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, 2015 edition
- NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2016 edition
- NIST Handbook 130, Uniform Laws and Regulations in the areas of Legal Metrology and Engine Fuel Quality, 2016 edition



Regulations Regulations

- The most recent additions to the regulatory authority of the Division are the Colorado Retail Natural Gas Regulations (7 CCR 1101-16), and the Colorado Retail Hydrogen Fueling Regulations (7 CCR 1101-17)
- Both of these regulation are strictly related to the storage and dispensing of compressed natural gas (CNG), liquefied natural gas (LNG), and hydrogen as a retail motor fuel.
- There are a number of companies and governmental agencies in Colorado that own alternative fuel dispensing stations where the CNG, LNG, or hydrogen is used only in their own vehicles and equipment
- These regulations are not applicable to non retail fueling stations where the products are not offered for retail sale



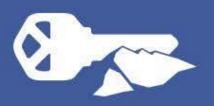
Retail Natural Gas (CNG/LNG) & Hydrogen Regulations

- The Retail Natural Gas and hydrogen regulations are organized in much the same way as the LPG regulations are with articles related to:
 - General provisions
 - Installation
 - Dispensing and Fuel Quality
 - Delivery into Systems
 - Accident Reports and Investigations



Retail Natural Gas (CNG/LNG) & Hydrogen Regulations

- The **General Provisions** primarily focus on the National Fire Protection (NFPA) and National Institute of Standards and Technology (NIST) codes that we have adopted by reference including:
 - NFPA 52, Vehicular Gaseous Fuel Systems Code, 2016 edition
 - NFPA 2, Hydrogen Technologies Code, 2016 edition
 - NFPA 55, Compressed Gases and Cryogenic Fluids Code, 2016 edition.
 - NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages, 2018 edition
 - NIST Handbook 44, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, 2018 edition
 - NIST Handbook 130, Uniform Laws and Regulations in the areas of Legal Metrology and Engine Fuel Quality, 2018 edition



LPG, CNG/LNG and Hydrogen



Regulations

Copies of the LP-Gas, Retail Natural Gas, and Retail Hydrogen Fueling Regulations, and information regarding any of these programs are posted on our website.



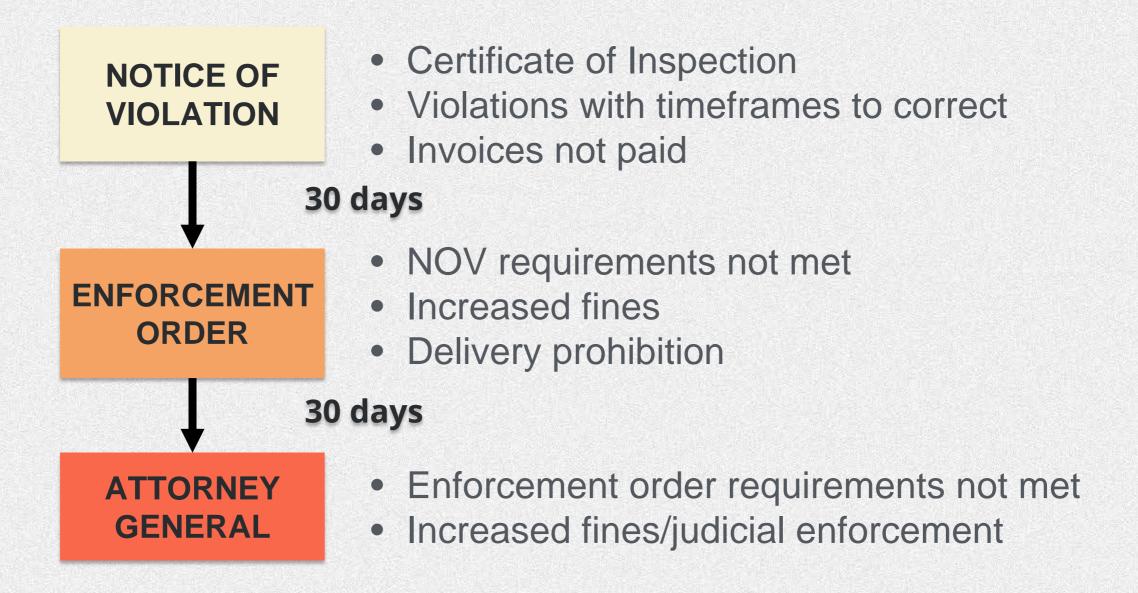
Petroleum Compliance Enforcement

Reviewing the <u>Steps</u> of the Enforcement Process

Vinny Secondo Petroleum Enforcement Coordinator



Enforcement Process





You received a Notice of Violation...

- 1) Request for operational records not submitted, or late
- 2) Requested actions per the OPS inspector not addressed
- 3) Request for reports/information regarding release identification or response not provided

Communicate with us!



Submit the required information:

- Signed and corrected Certificate of Inspection and/or fee payment
- Request an Informal Conference within 10 working days of the NOV
- Reach Settlement Agreement without an Enforcement Order.



COLORADO Department of Labor and Employment Existen of Oland Profile Science

Division of Oil and Public Safety - Petroleum Program 633 17th St, Suite 500, Denver, CO 80202-3610 cdle_oil_inspection@state.co.us www.colorado.gov/ops 1 (303)318-8525

Certificate of Inspection

6/7/2019

On **6/7/2019**, The Division of Oil and Public Safety (OPS) conducted an inspection of the regulated petroleum storage tank system at **Self Service Oil (test - FID230)** (Facility ID 1) located at **2160 S Havana St, Aurora, CO 80014**. A copy of this certificate was emailed to Station Owner at zach.hope@state.co.us.

Notice of Violations

Code	Description	Comment	Count	Required Action	Days to Correct	Date Corrected
(SB)	Spill Bucket	Regular unleaded tank	1	Remove the water, fuel, and/or debris from the spill bucket(s).	5	

The Owner or Operator must correct the violation(s) within the period specified, indicate the date each violation was corrected, and sign and return this completed notice to OPS within 30 days to cdle_oil_inspection@state.co.us. Failure to correct the violation(s) may lead to an Enforcement Order, delivery prohibition, and fines of up to \$5,000 per day per violation, and may jeopardize your eligibility for reimbursement from the Petroleum Storage Tank Fund. If desired, within 10 working days of this notice, you may file a written request for an informal conference with the OPS Director to further discuss these violations.

Please contact your inspector, CDLE Compliance, at CDLE_ComplianceInspectionForms@state.co.us or 303-303-3333 if you have questions.

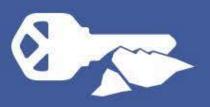
Owner/Operator Signature:

Date: _____

Owner/Operator Printed Name: _____

Certificate of Inspection

- Includes description of violation(s), required actions to resolve, days to correct
- Requires owner/operator signature, date, and date violation(s) corrected



You received an Enforcement Order...

- 1) Complete the required actions specified in the Enforcement Order and pay associated fine within 30 days
- 2) Request an Informal Conference with OPS within 10 days of receiving the Enforcement Order and reach Settlement Agreement
- 3) Delivery Prohibition may be invoked until all compliance issues have been resolved and fines paid
- Unresolved Enforcement Orders can result in the case being forwarded to the Office of the Attorney General for judicial enforcement with substantial fine amounts





Enforcement Orders Issued for Colorado Petroleum Storage Tank Owners/Operators





Settlement Agreement

- Result of an Informal Conference NOV or Enforcement Order issues upheld, modified, or stricken
- Includes a schedule and due dates of the required activities necessary to resolve the violations
- If terms of Settlement Agreement met, enforcement case will be closed
- If terms of Settlement Agreement not met, the following action can be pursued:
 - Reinstatement of a previously-issued Enforcement Order
 - Drafting a new Enforcement Order
 - Forwarding the case to the Attorney General's Office





New Requirements for Monthly Inspections

Brett Redd Storage Tank Technology STTI





New Regulations

- Became Effective March 17, 2019
- . Two items require monthly attention
 - · Water in Tanks
 - Monthly Inspections



Water in Tanks – Updates to Regulations

- Section 2-3-4-2 (Effective March 17, 2019)
- Measurement of water in the bottom of the tank, to the nearest one-eighth inch...
- Measurable water within any tank shall not exceed one-fourth of an inch.
- Download new monthly inspection form 1/4"



New Form – Water removal requirements

		Increation Dates					1			I			T	
	Inspection Dates:				<u> </u>	<u> </u>	<u> </u> '	<u> </u>	('	<u> </u>	<u> </u> '		<u> '</u>	
Area	Description	Area of Concern	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Fill Lid	1. Are all fill lids present and in good condition?				<u> </u>				'		<u> </u>	'	
L.		Are fills correctly identified by color and located on the correct tank?												
Bucket	Spill Containment Bucket	Is the spill bucket free of dirt, trash, water and product?												
ment		 Is the spill bucket in good condition and free of damage (no cracks, bulges or holes)? 												
Containment		5. Does the drain assembly work (if applicable)?												
Spill Co	Fill Riser	6. Is the fill adaptor tight on the riser pipe?												
		Is the fill cap in place with a gasket and sealed tightly on the fill pipe?												
	Overfill Valve	8. Is the overfill device free of obstructions?		<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		
Tank Interior	Water Level	 9. Does the tank contain less than ¼ inch of water? Note: If the water level is greater than ¼ inch, remove all water to extent possible. 												

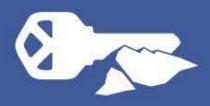
Colorado Division of Oil and Public Safety

UST Monthly Compliance Inspection Checklist



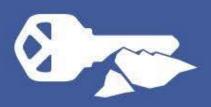
Why is water bad???

- Fuel Quality
- Operational Issues
- Corrosion leading to system failure

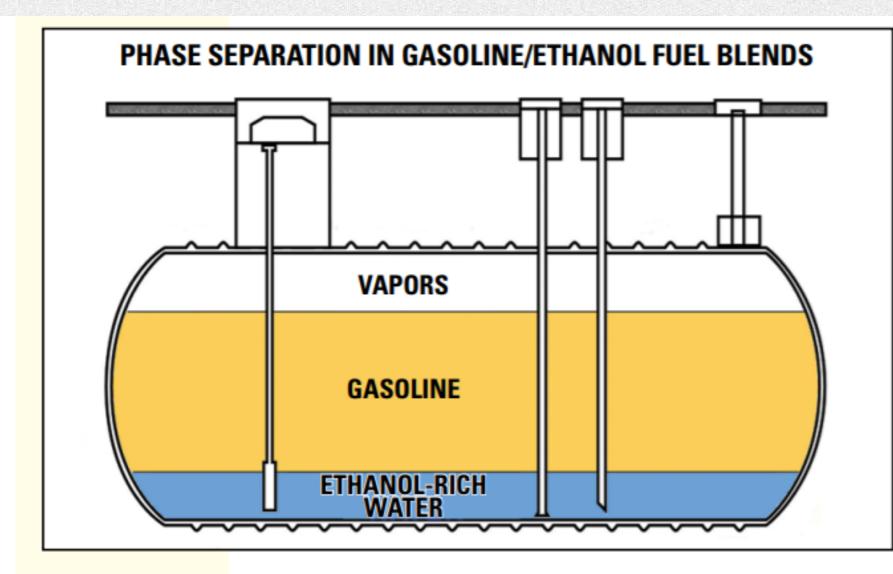


Fuel Quality – Unleaded Gasoline

- . Ethanol Absorbs Water
- · Can lead to Phase Separation
 - Conventional Gasoline can absorb 150 ppm water
 - E10 can absorb 7000 ppm water

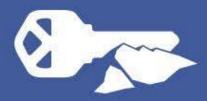


Phase Separation



A few tens of gallons of water in a tank is enough to cause phase separation in many thousands of gallons of gasoline, resulting in hundreds of gallons of an alcohol/water mixture in the bottom of a tank. Frequent monitoring for water is necessary to protect the quality of ethanol-blended fuels.

TankSmart: Maine UST Operator Training Program



Fuel Quality – Ultra Low Sulfur Diesel

- Corrosion
- Microbes and Sludge
- Ethanol (from cross loading) and Bio-diesel can accelerate fuel quality issues
- Ultra Low Sulfur = more microbial activity

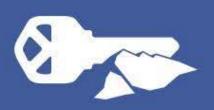


Corrosion in Vapor Space – plugged filters?





Photo courtesy of OPS



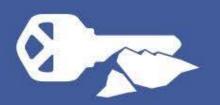
Corrosion Leading to Product Loss

Interior Photo



Findings and Resolution: Release from perforation in tank caused by internal corrosion. Tank was removed. Total cleanup costs estimated at over \$900,000.

ASTSWMO report – Compatibility Considerations for UST Systems



New Monthly Inspection Requirements

- STP Areas
- UDC Areas



Section 2-3-6-1(a)(4)

- All areas that house exposed underground product piping...must be visually inspected monthly for regulated substance leakage unless they are secondarily contained and electronically monitored...
- Including but not limited to under dispenser areas, tank top areas, and piping transition areas



Download the new form...

Hard		leaks?												
Dispenser-Hanging H	Swivels	15. Are the swivels in good condition and free of leaks?												
	Hoses	16. Are the hoses in good condition and free of leaks?												
	Breakaway Connectors	17. Are the breakaway connectors in good condition and free of leaks?												
	Breakaway Hoses	18. Are the breakaway hoses in good condition and free of leaks?												
Leak Detection*														
Area	Description	Area of Concern	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Leak Detection	ATG Console	19. Does the ATG have power?												
		20. Does the ATG printer have paper and is it in working condition (If applicable)?												
		21. Do the liquid measurements and the ATG readings appear to be accurate?												
		22. Are the warning or alarm lights on?							_					
	Areas with Visible Piping	 23. Are under dispenser areas, submersible turbine pump areas and piping transition areas free of leaks? Note: This requires a visual inspection or electronic sensors in containment sumps. 												
	Mochanical			_					_	_				
	Line-Leak Detection	24. Are dispensers operating at normal flow rates (not in slow-flow)?												
	Daily Inventory	25. Are inventories reconciled daily and are the variances within the guideline set by the facility owner?												

Colorado Division of Oil and Public Safety

UST Monthly Compliance Inspection Checklist

Page 2 of 3



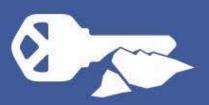
Things can change quickly



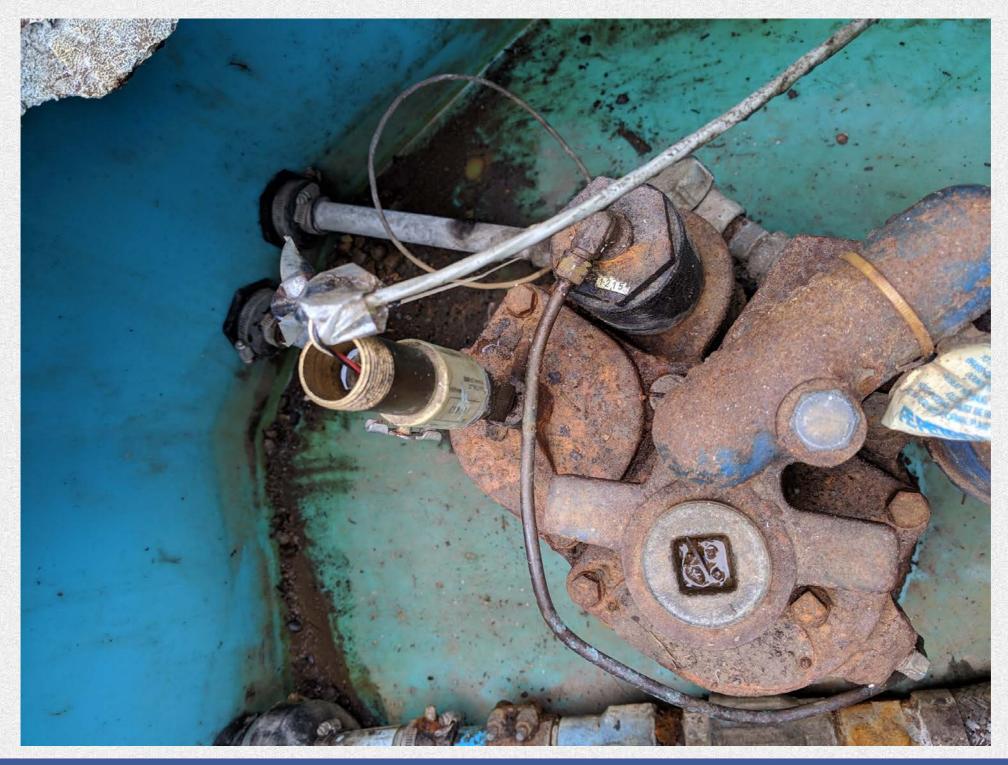


Don't overlook things that have "always been that way"





Electrical Conduit Problems





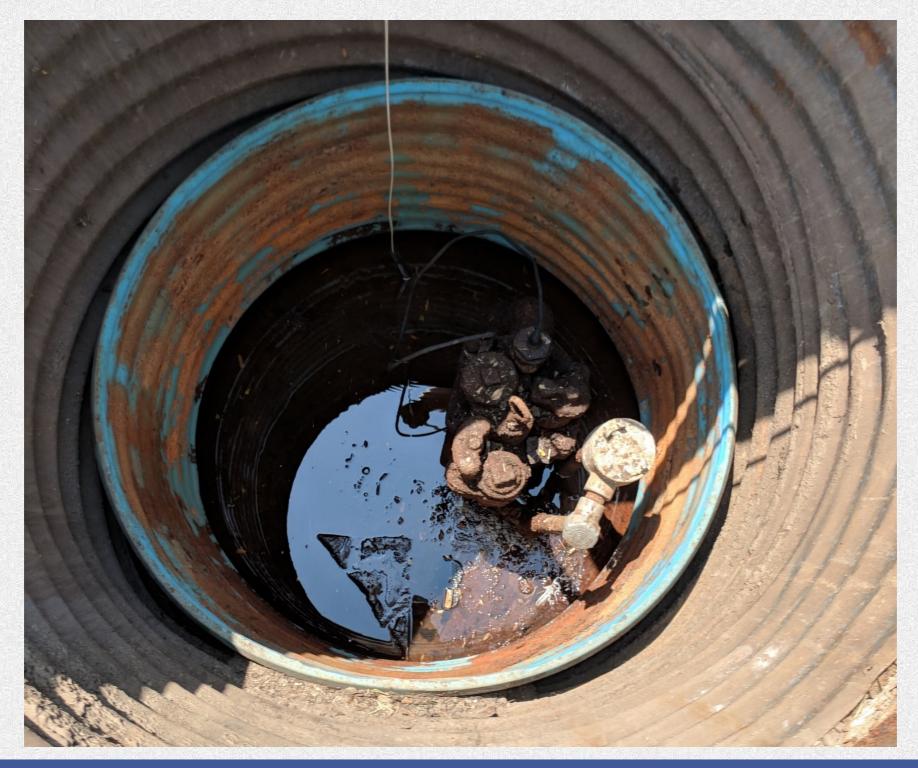
Multiple Issues...

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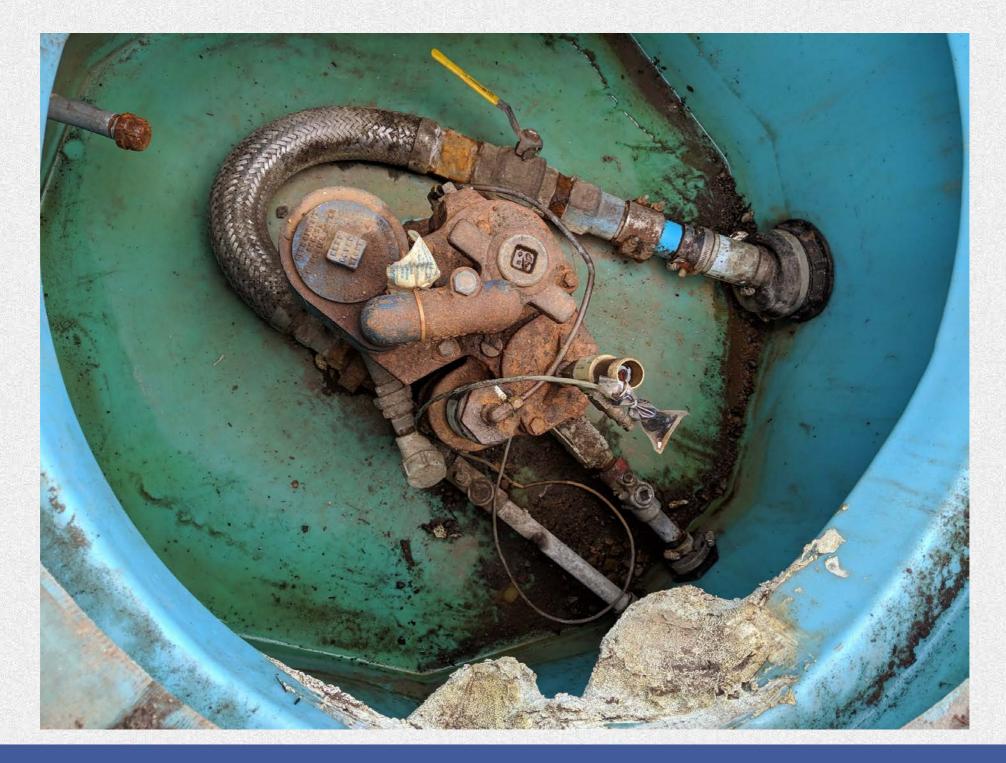


Leaks at STP – No Sump



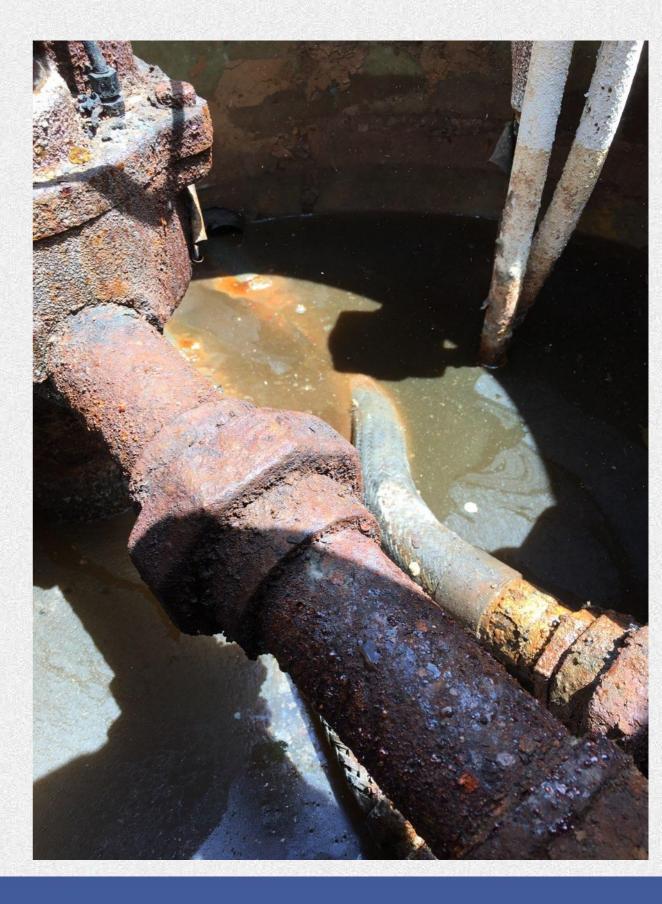


Leaks at STP – With Sump



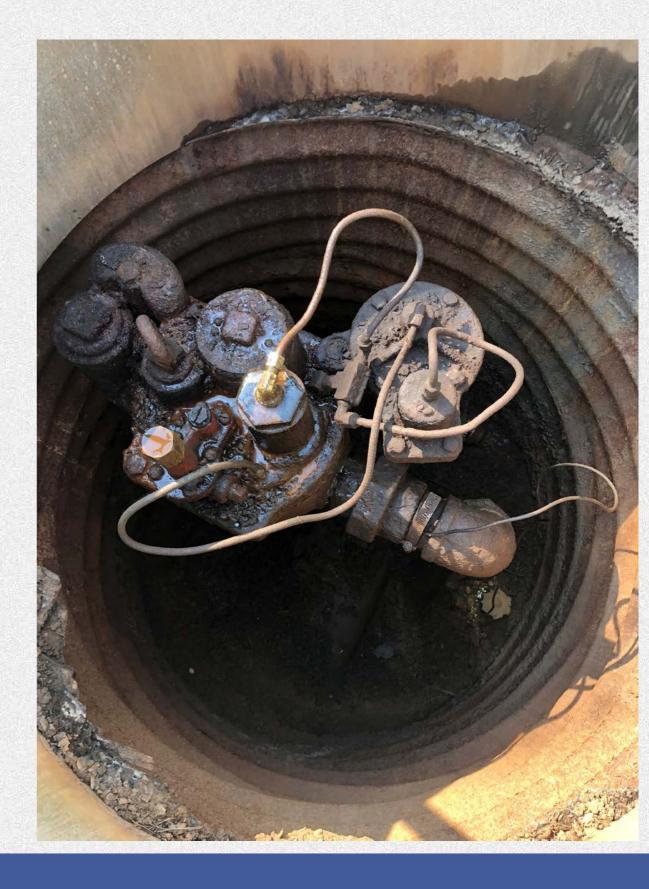


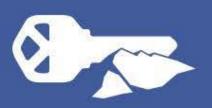
Water in Sump -Corrosion





Why is the top of the STP wet?



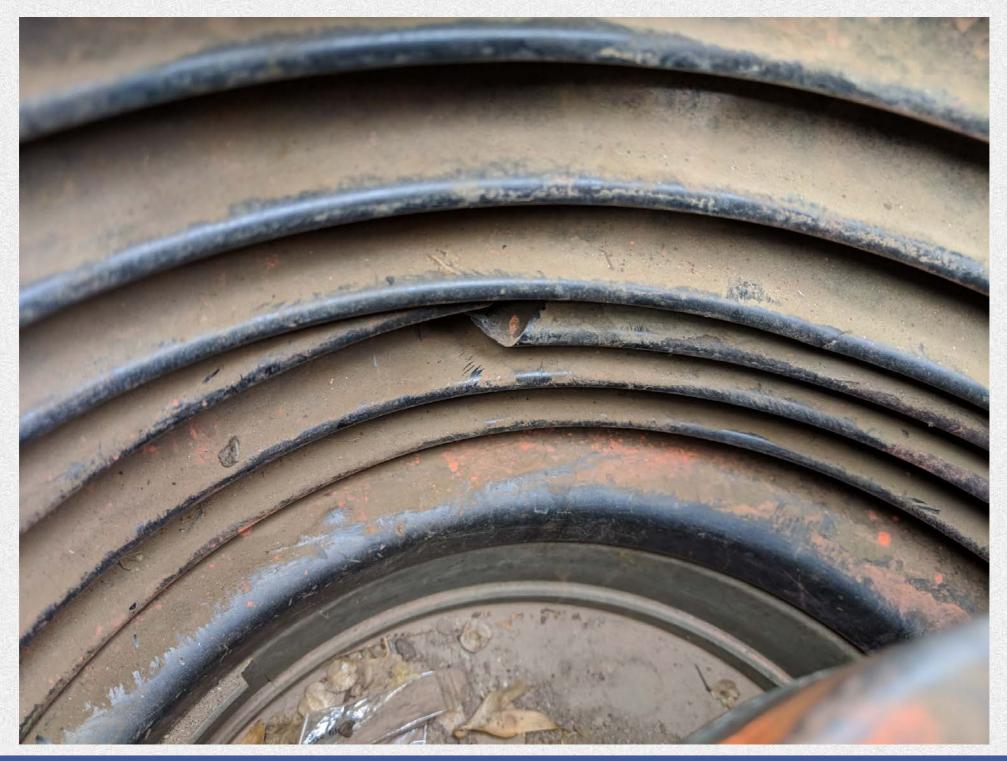


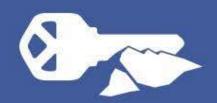
Leaking Meter Gasket





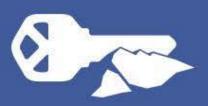
There's a hole in my bucket – Why is it always dry?



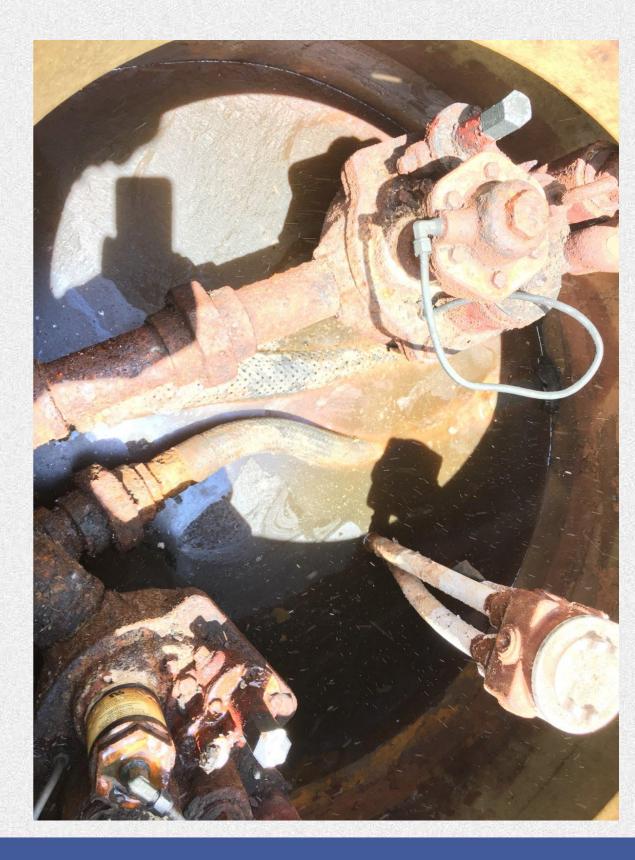


Will this bucket pass a leak test?

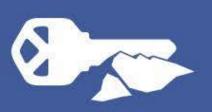




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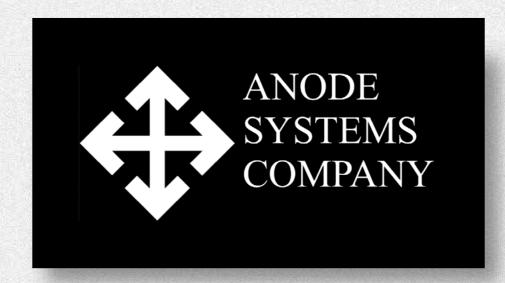


Why is there always water in my sump?



Thinking Outside the Box Saves Money

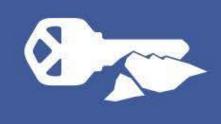
Hans Schmoldt Anode Systems Company

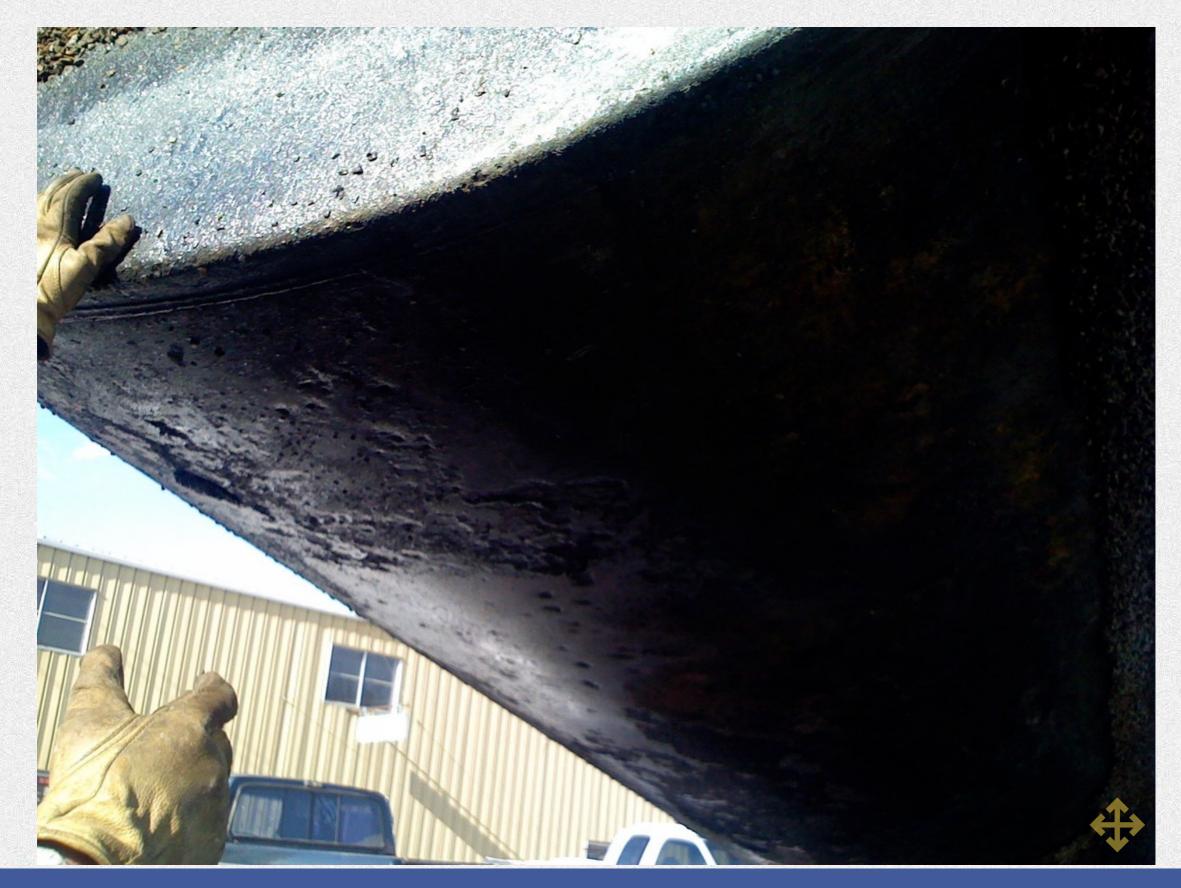








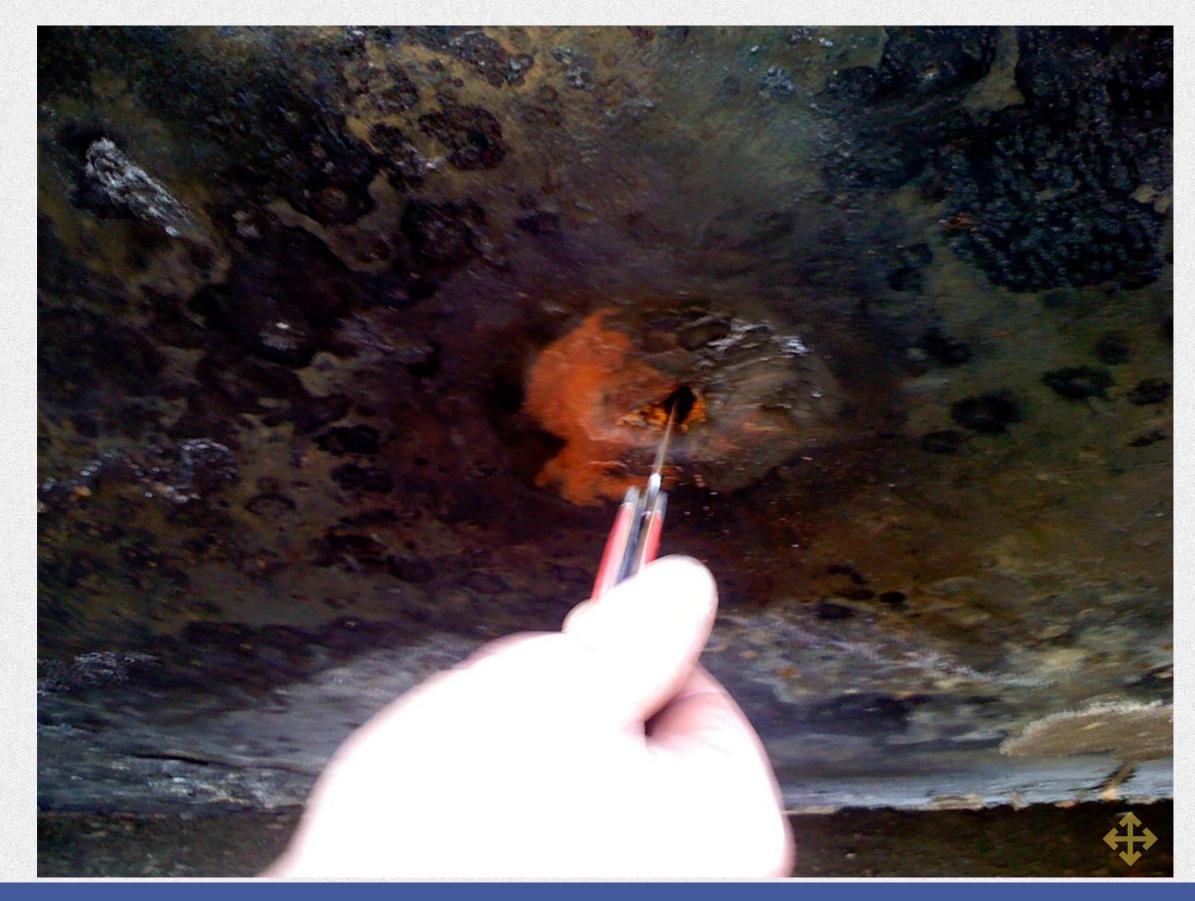






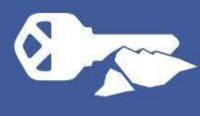












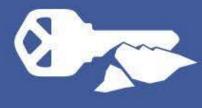
































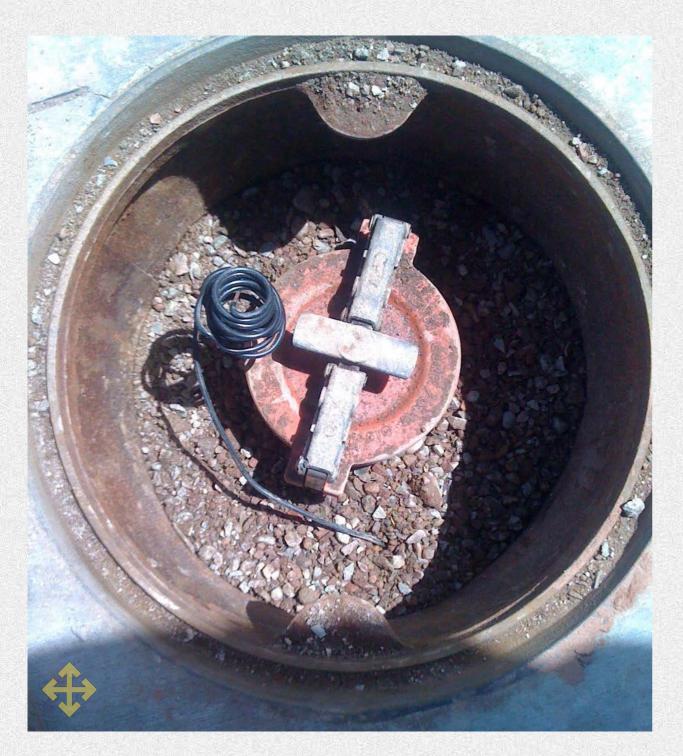








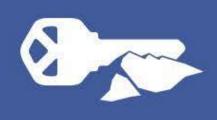


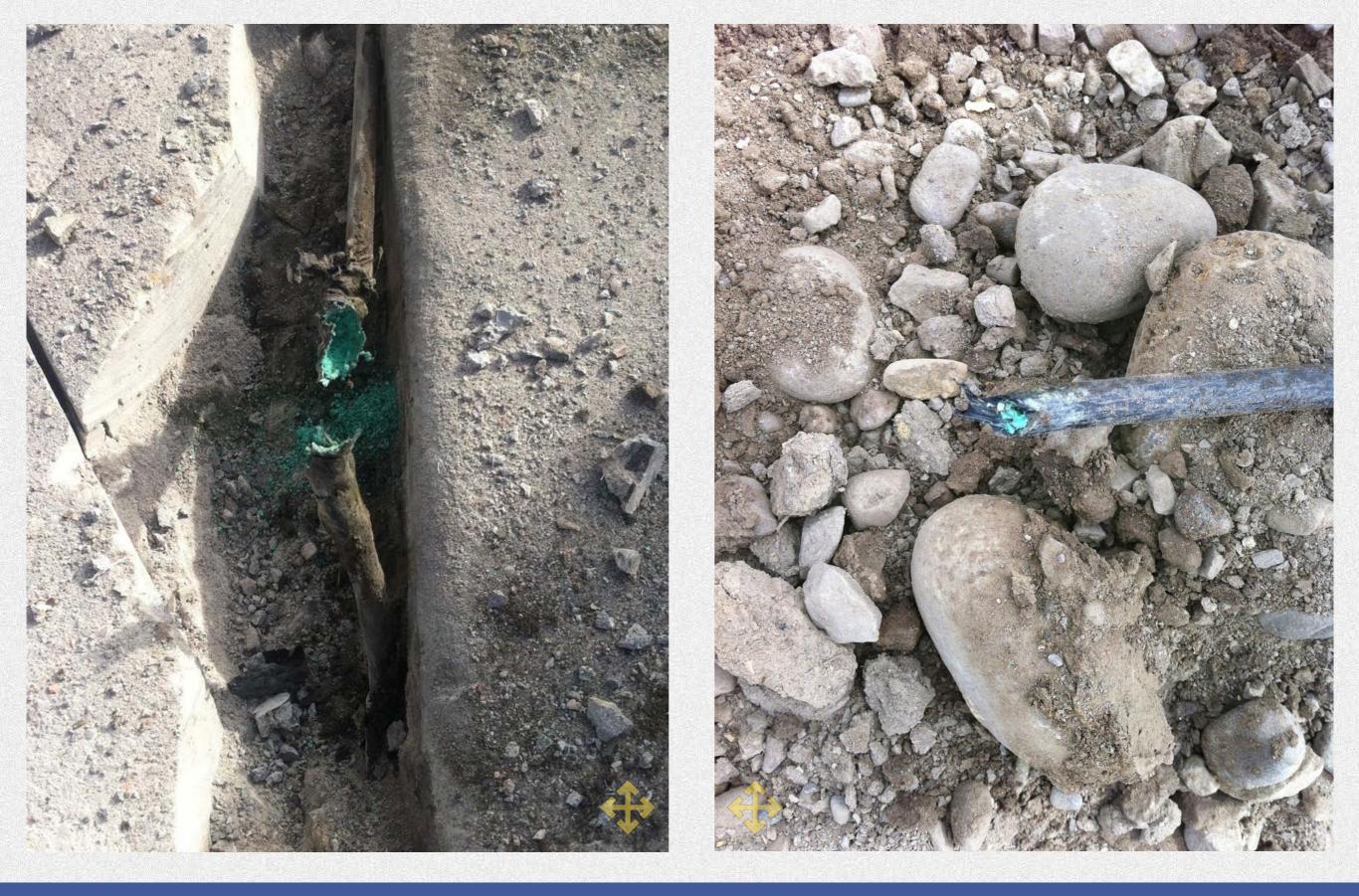






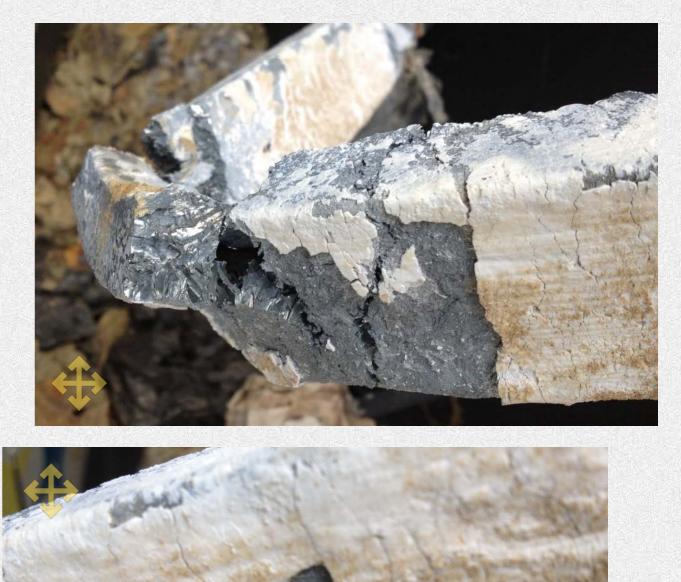










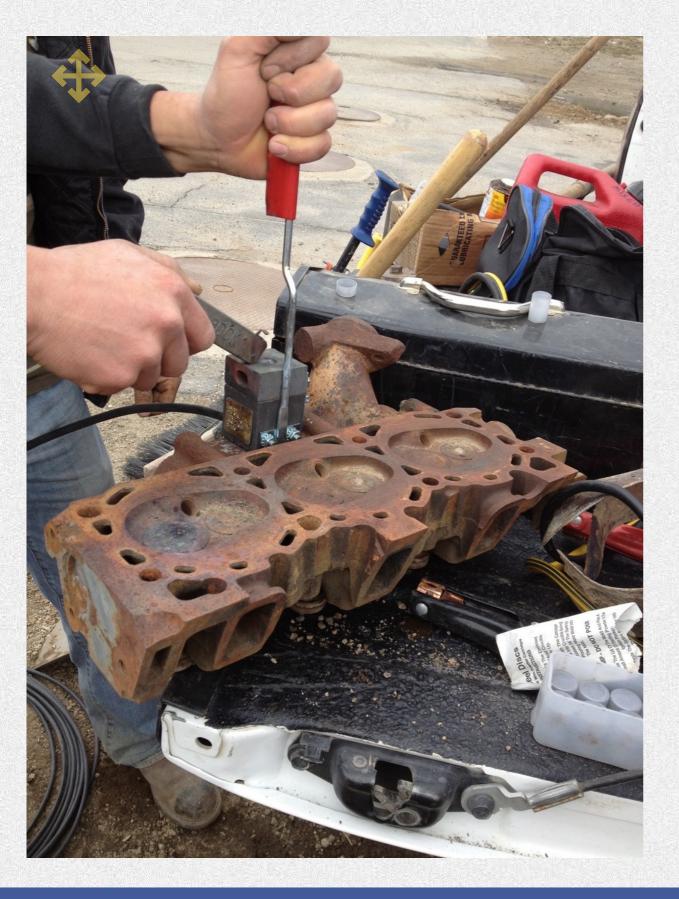


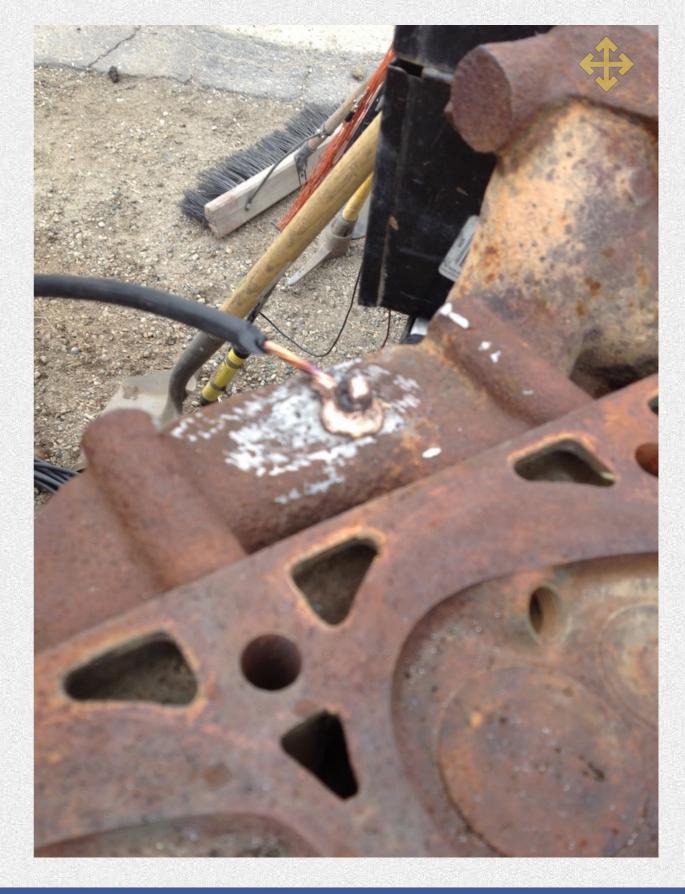


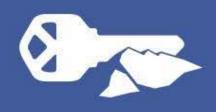


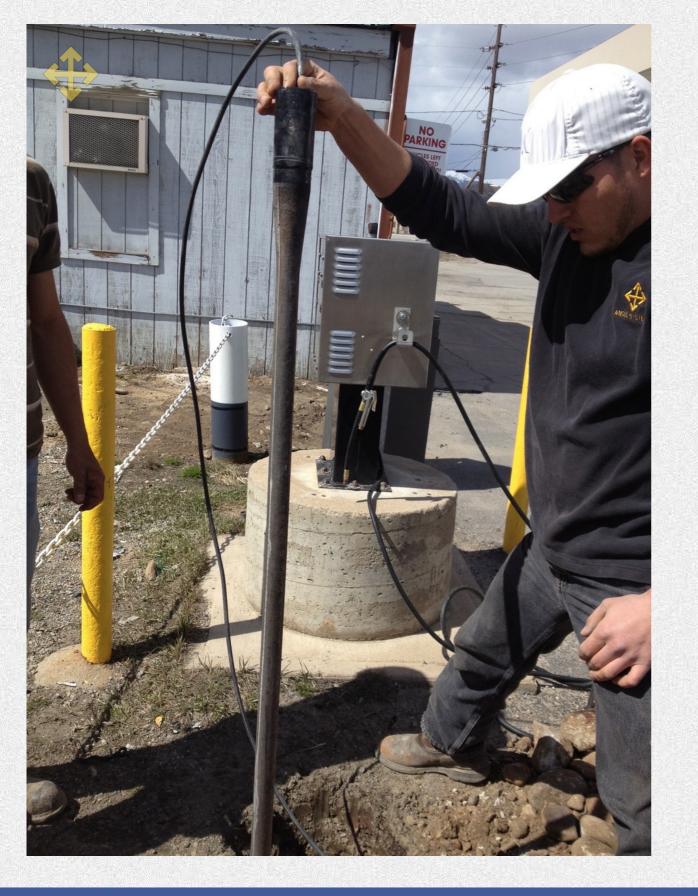




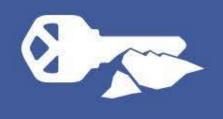


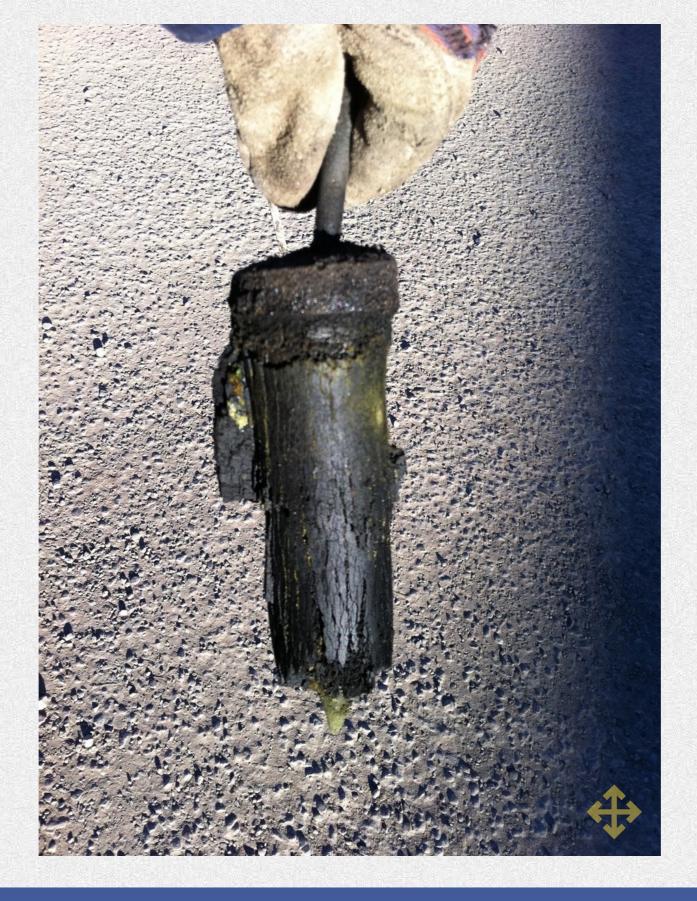




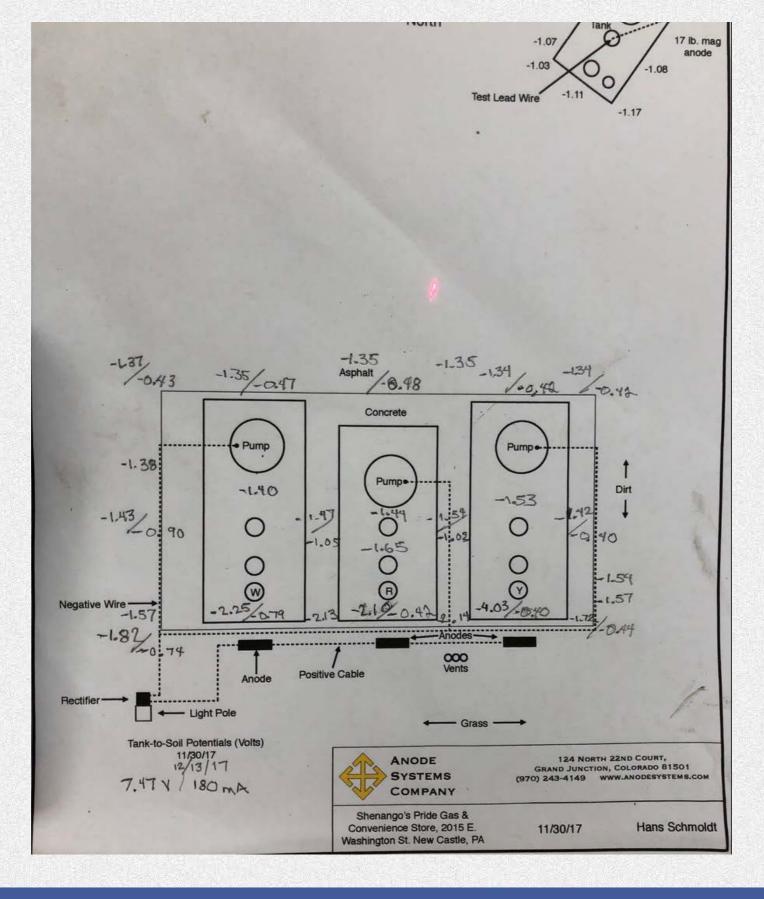










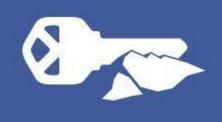






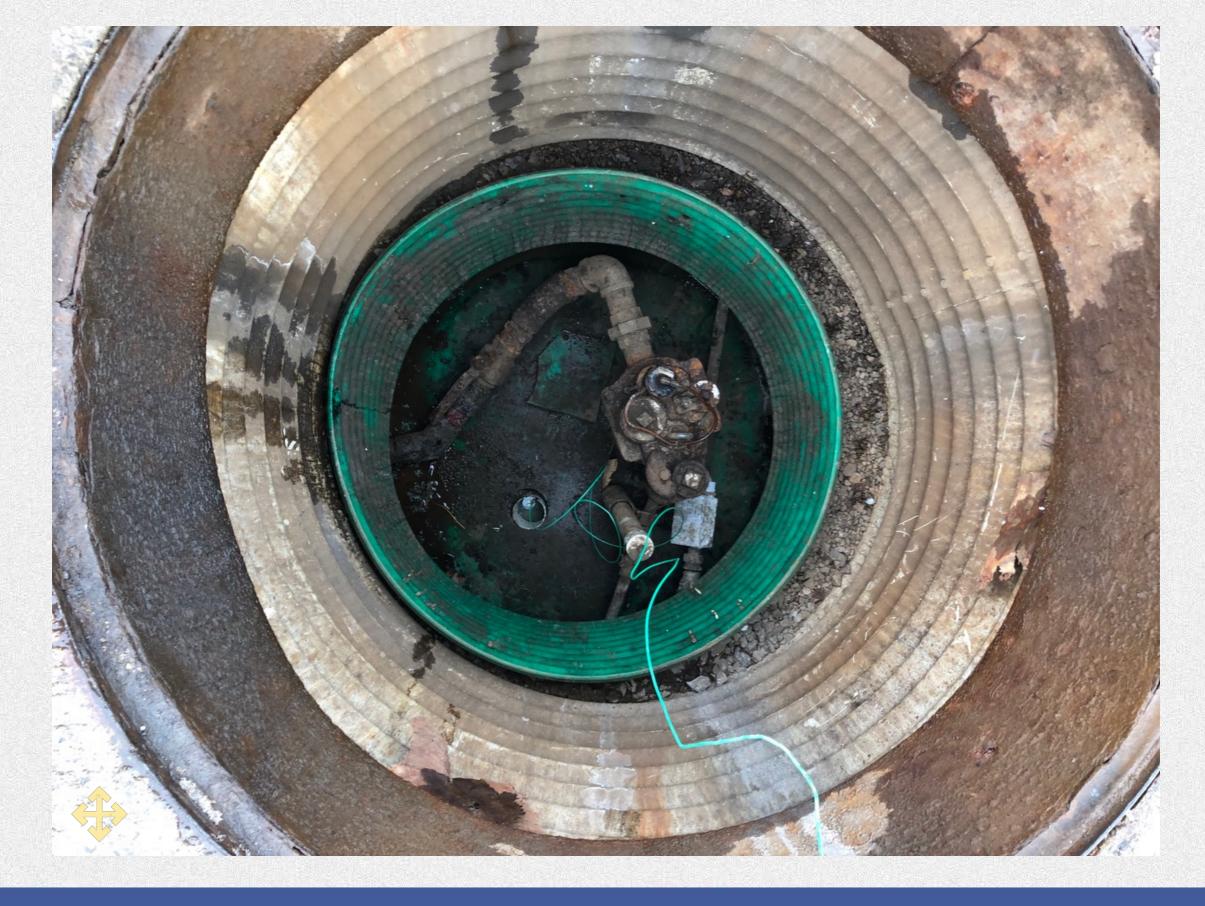


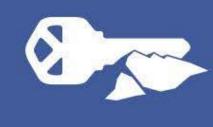


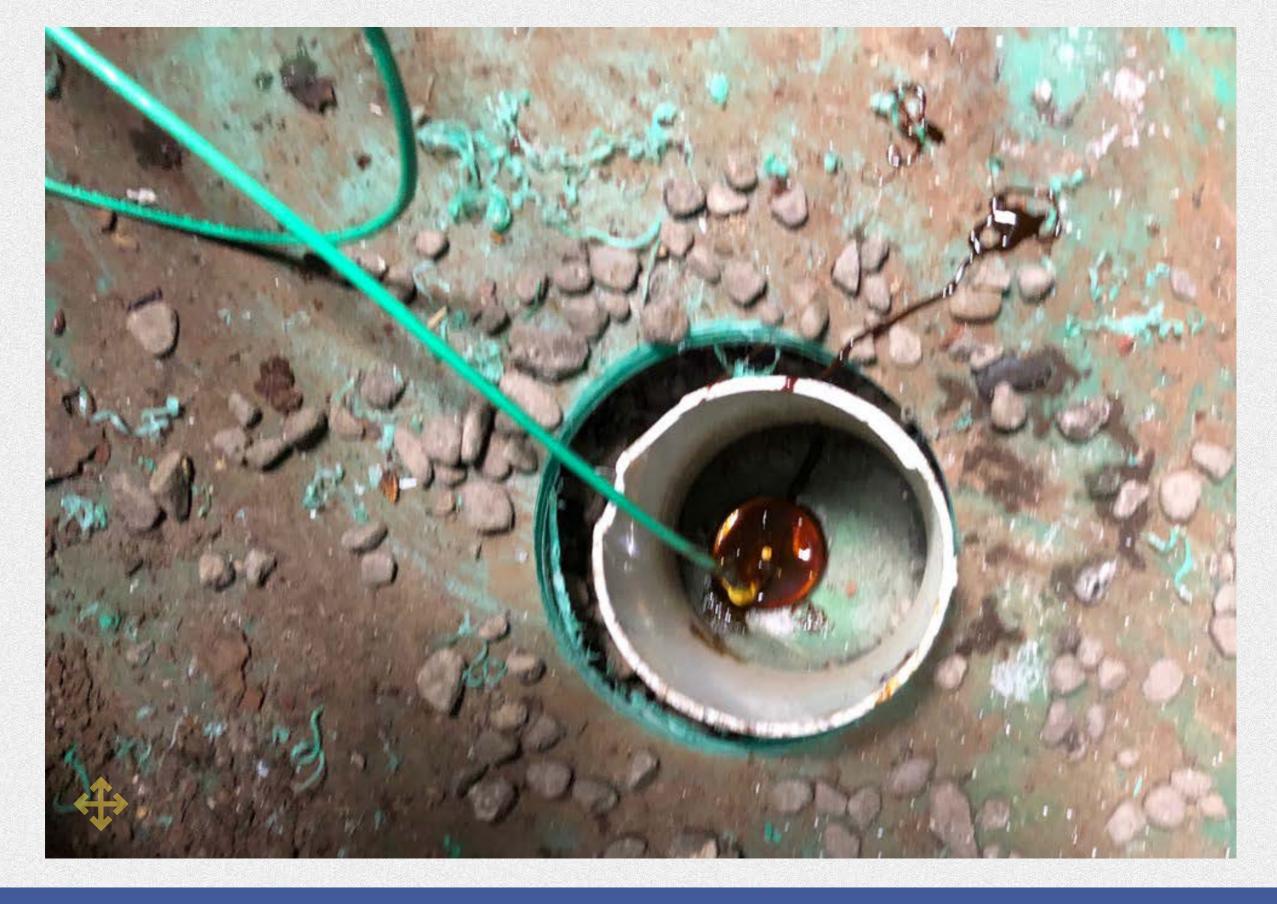














Questions?

KEYS TO COMPLIANCE COLORADO DIVISION OF OIL & PUBLIC SAFETY

Break

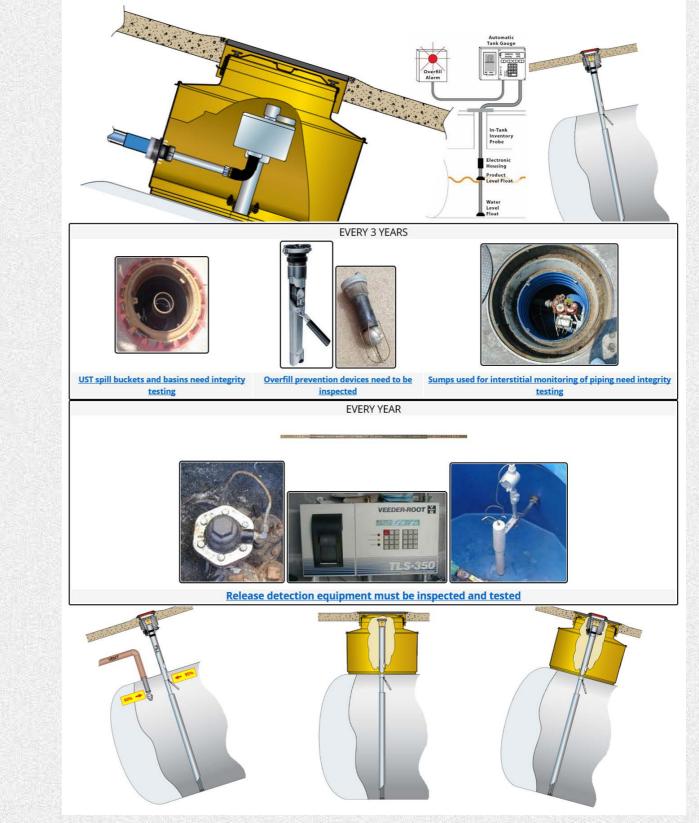
Time to visit the Exhibitor Area

See you at 10:45



What's Coming in 2020?

Storage Tank Compliance Petroleum Program Division of Oil and Public Safety 2019 Outreach

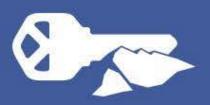




What's Coming in 2020?

Storage Tank Compliance Petroleum Program Division of Oil and Public Safety 2019 Outreach

- Inspection & Testing Requirements for Spill Buckets, Piping Containment Sumps and Overfill Prevention Devices
- Spill Bucket & Containment Sump Repair
- Updates to the Certified UST Installer Requirements
- New Qualified Service Technician (QST) Requirements
- Release Detection for Emergency Generator USTs

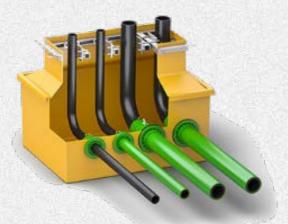


DAYS LEFT TO TEST SPILL BUCKETS AND CONTAINMENT SUMPS AND INSPECT OVERFILL PREVENTION DEVICES





- Since January 1, 2017, the Colorado Petroleum Storage Tank Regulations require that spill buckets and piping containment sumps used for interstitial monitoring be tested for tightness every 3 years
 - Regulations have required new underground tanks and piping to use interstitial monitoring since August 1, 2008.
- Also since January 1, 2017, the regulations require that overfill prevention devices be inspected to ensure their proper operation every 3 years







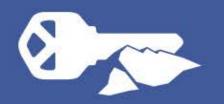
Spill Bucket and Containment Sump Test Methods

Methods for testing spill buckets and containment sumps can include:

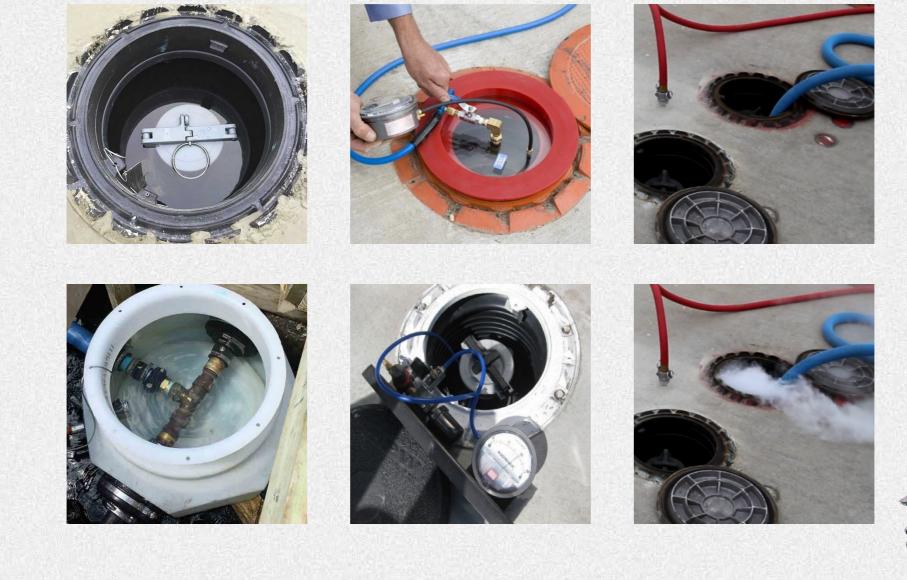
- Manufacturer requirements (where they exist)

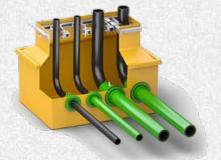
 Hydrostatic (hydrotesting) or vacuum testing in most cases
- Code of practice developed by a nationally recognized association
 O PEI RP1200-17 (Recommended Practices for the Testing and
 - Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities)
- Other methods approved by OPS
 - o including those that are third-party certified and approved by NWGLDE





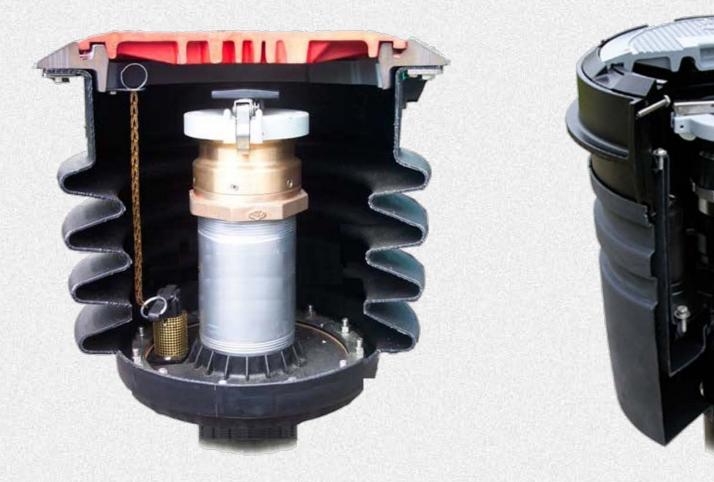
Spill Bucket and Containment Sump Test Methods

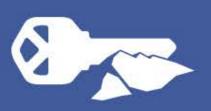






Spill Bucket Testing





New Spill Buckets

New spill buckets installed since January 1, 2017 must be leak tested:

- At installation
 - most manufacturers (if not all) require their spill buckets to be leak tested before being buried, and again after concrete is poured
- Within 30 days of 1 year after installation
- Every three years thereafter
 - as an alternative, the interstice of double wall spill buckets can be monitored for liquid on a monthly basis using visual gauges or electronic sensors, and the results documented







Existing Spill Buckets

All existing spill buckets must be leak tested:

- By January 1, 2020
- Every three years thereafter
 - as an alternative, the interstice of double wall spill buckets can be monitored for liquid on a monthly basis using visual gauges or electronic sensors, and the results documented







Non-traditional Spill Buckets

Where existing, spill buckets must be leak tested:

- By January 1, 2020
- Every 3 years thereafter
 - as an alternative, the containment sump can be leak tested by January 1, 2020, and then be monitored for liquid on a monthly basis visually or by using electronic sensors, and the results documented



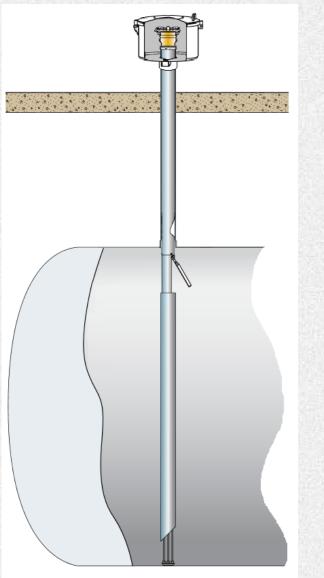
Non-traditional Spill Buckets

Where existing, containment sumps must be leak tested:

- By January 1, 2020
- Every 3 years thereafter



Non-traditional Spill Buckets



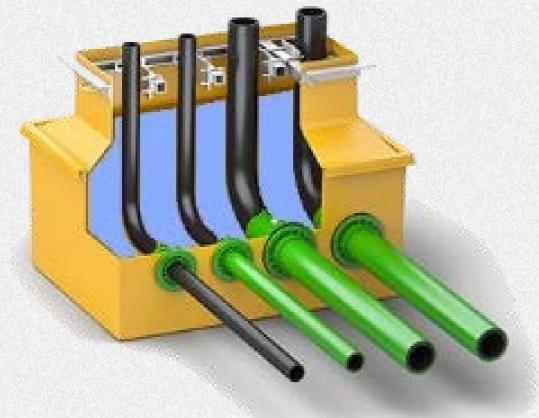
Where existing, aboveground spill buckets must be leak tested:

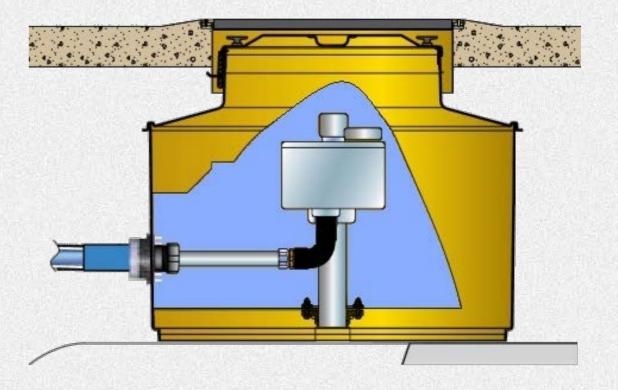
- By January 1, 2020
- Spill buckets must be visually inspected at least monthly thereafter, and the results documented



Piping Containment Sump Testing

Applies to all piping containment sumps (including STP, UDC, and transition) installed since August 1, 2008, and any others that are used for interstitial monitoring for piping release detection.



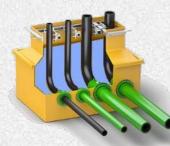


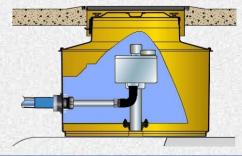


New Piping Containment Sumps

New sumps installed since January 1, 2017 must be leak tested:

- At installation
 - most manufacturers (if not all) require their sumps to be leak tested before being buried, and again after concrete is poured
- Within 30 days of 1 year after installation
- Every three years thereafter
 - as an alternative, the interstice of double wall sumps can be monitored for liquid on a monthly basis using visual gauges or electronic sensors, and the results documented



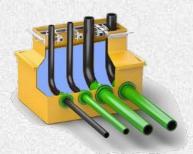


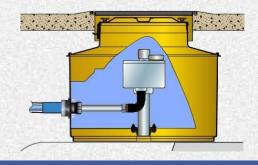


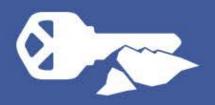
Existing Piping Containment Sumps

All existing sumps installed from August 1, 2008 through December 31, 2016, and any others that are used for interstitial monitoring for piping release detection must be leak tested:

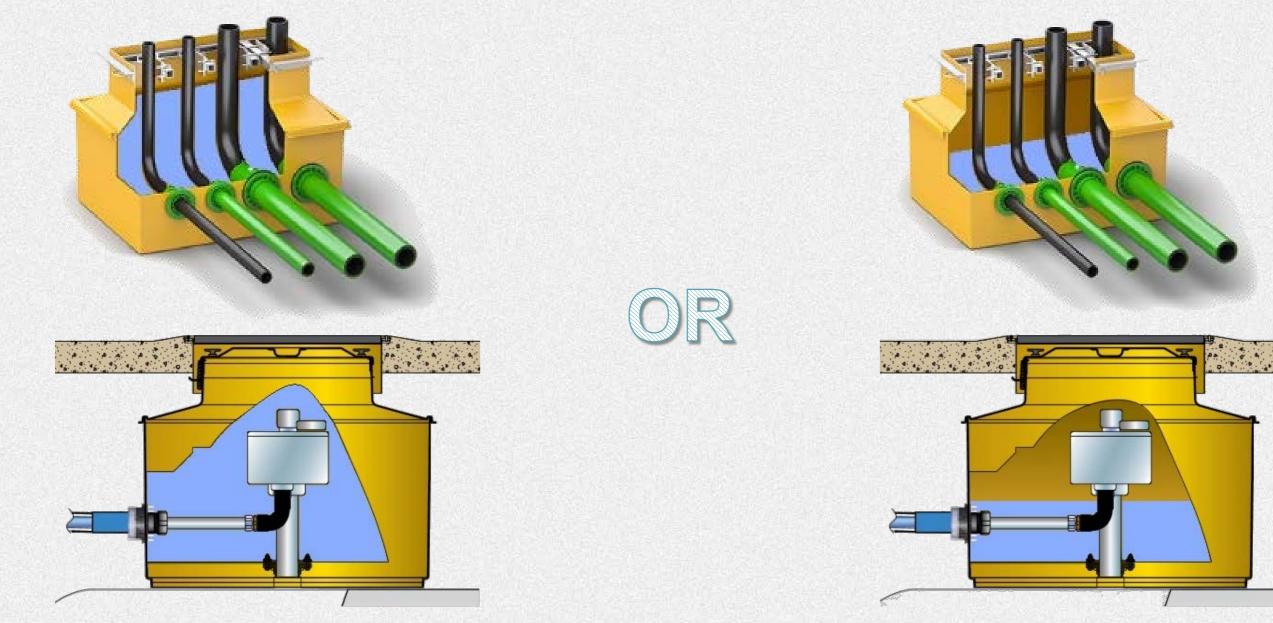
- By January 1, 2020
- Every three years thereafter
 - as an alternative, the interstice of double wall sumps can be monitored for liquid on a monthly basis using visual gauges or electronic sensors, and the results documented







Low Level Piping Containment Sump Testing

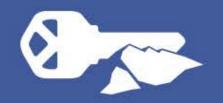




Low Level Piping Containment Sump Testing

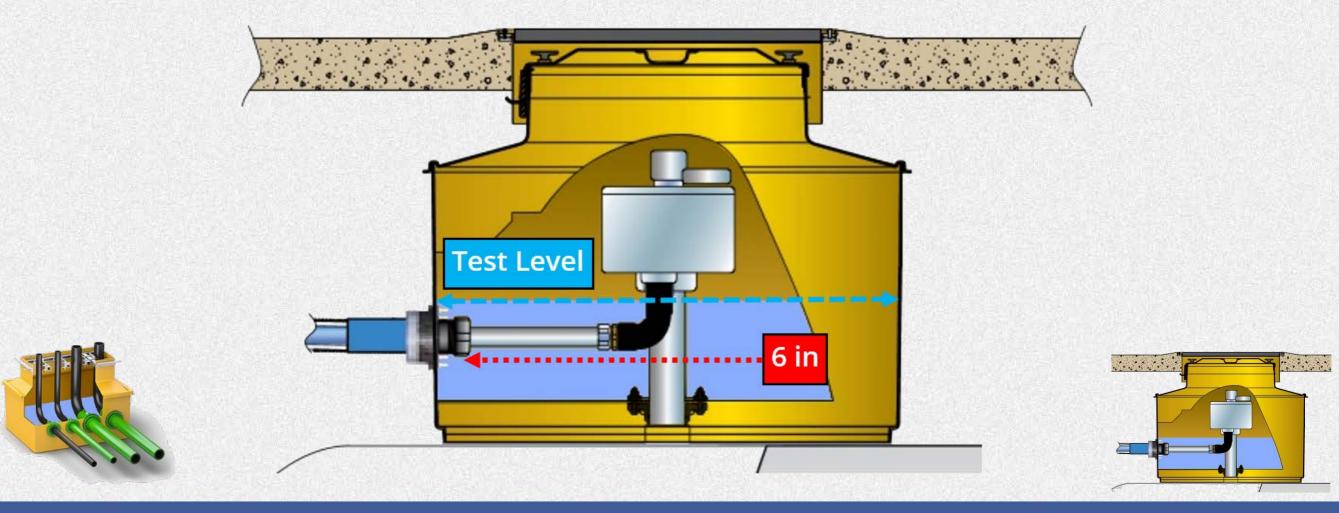
As an alternative to hydrotesting sumps at higher levels (100% capacity, 4 inches above highest penetration/seam, etc.), low level testing may be used for the required 3 year tightness test under certain conditions:

- Approved electronic sensors having a liquid activation height of less than 2 inches must be installed in the lowest point of all piping containment sumps
- Sensor activation must cause a positive shutdown of all pumping systems
- Sensors and console/monitoring equipment must be tested annually



Low Level Piping Containment Sump Testing

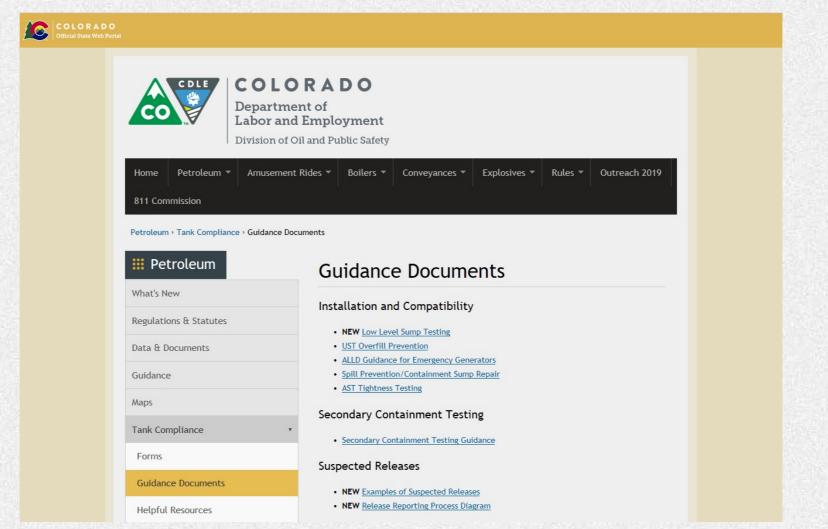
The required minimum test level is 6 inches, unless liquid at that level is in contact with a penetration point. Otherwise, the entire penetration must be covered.





Low Level Piping Containment Sump Testing

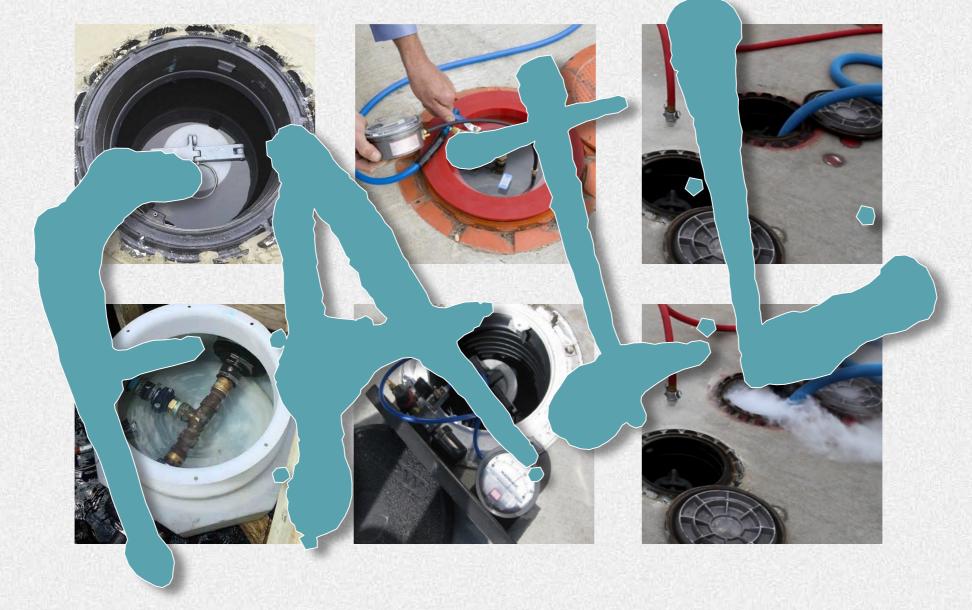
The Low Level Piping Containment Sump Testing guidance document is available for download on the OPS website.



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Spill Bucket and Containment Sump Test Results







Spill Bucket & Containment Sump Repair

When testing indicates non-passing results, the equipment must be repaired or replaced in a manner that meets OPS requirements.





Spill Bucket & Containment Sump Repair

When testing indicates non-passing results, the equipment must be repaired or replaced in a manner that meets OPS requirements.





Spill Bucket & Containment Sump Repair

When testing indicates non-passing results, the equipment must be repaired or replaced in a manner that meets OPS requirements.



Non-mechanical field-applied sealants, linings and pastes



Field-installed mechanical repair kits or inserts





Repairs

Spill Bucket & Containment Sump Repair

Repair Method	Frequency of Tightness Testing Following Repair*	Requirements
Non-mechanical field-applied sealants, linings and pastes	Annually	 Must be compatible with the product being stored
Field-installed mechanical repair kits or inserts	Every 3 Years	• Must be intended for use in the environmental conditions to which they will be exposed

*Tightness testing must be performed after completing repairs and at the frequency listed above thereafter according to manufacturer requirements, PEI RP1200-17, or another approved method.

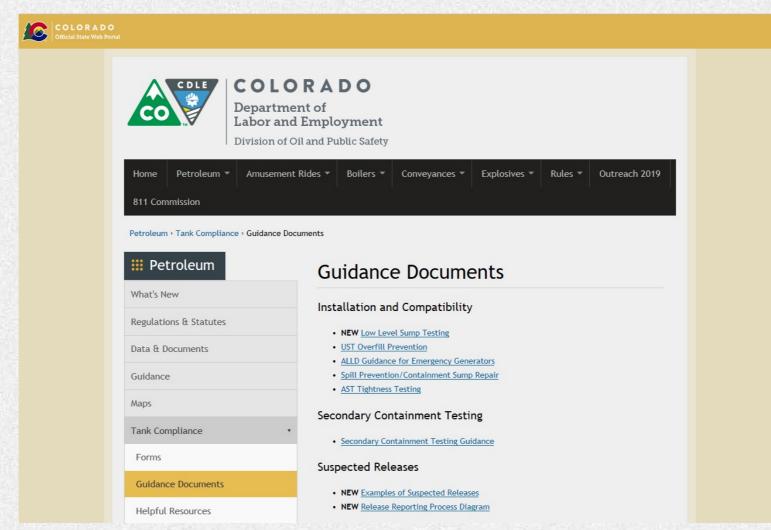






Spill Bucket & Containment Sump Repair

The Spill Prevention/Containment Sump Repair guidance document is available for download on the OPS website.

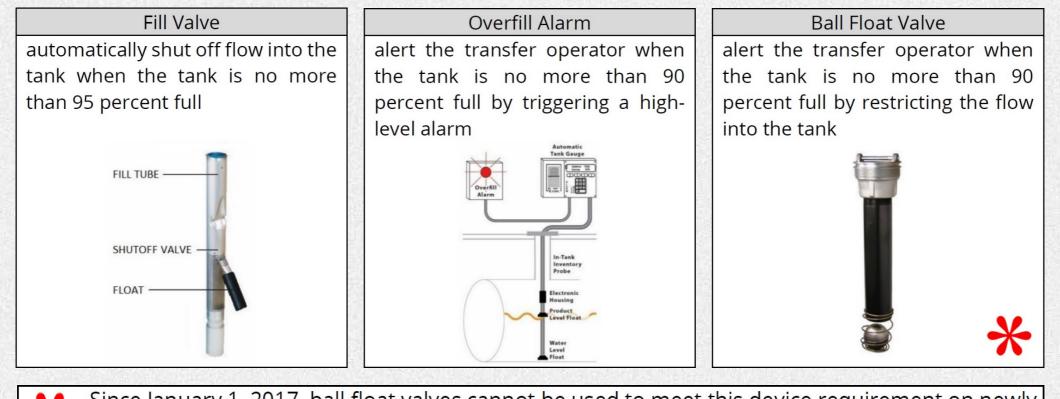






Overfill Prevention Device Inspections

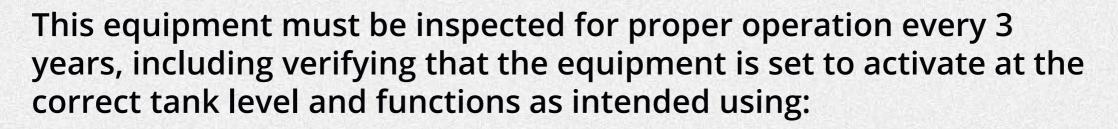
OPS regulations require that USTs be equipped with overfill prevention equipment that will...



Since January 1, 2017, ball float valves cannot be used to meet this device requirement on newly installed USTs, or as a device replacement on USTs already existing before that date.



Overfill Prevention Device Inspections



- Manufacturer requirements (where they exist)
- Code of practice developed by a nationally recognized association

 PEI RP1200-17 (Recommended Practices for the Testing and Verification of Spill, Overfill, Leak Detection and Secondary Containment Equipment at UST Facilities)
- Other methods approved by OPS

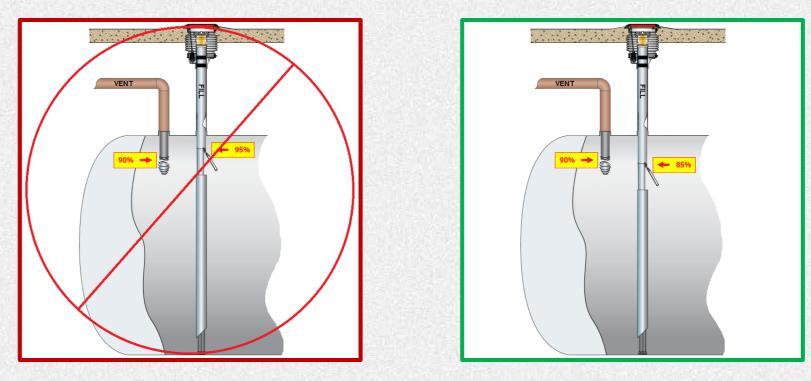
For UST systems in use on or before January 1, 2017, the first inspection must be conducted by January 1, 2020.



Tanks With Fill Valves and Ball Floats

Since January 1, 2017, ball float valves cannot be used to meet this device requirement on newly installed USTs, or as a device replacement on USTs already existing before that date.

If a fill valve is used for overfill prevention and a ball float valve is used in conjunction with it for any other reason, the fill valve must be installed so that its shutoff point is reached before the ball float valve restricts flow.





Updates to the Certified UST Installer Requirements





Updates to the Certified UST Installer Requirements

Beginning January 1, 2020, to become an OPS-certified UST Installer, applicants will need to provide:

- A completed UST Installer Certification Application
- A current (unexpired) ICC UST Installation/Retrofitting U1 certificate

 ICC UST certificates are valid for a period of two (2) years and must
 be renewed
- A Certificate of Completion from PEI for the RP100 Recommended Practices for Installation of Underground Liquid Storage Systems exam

Installers who are already OPS-certified and wish to continue will need to provide a current ICC certificate (if theirs has expired), and a copy of their PEI RP100 exam Certificate of Completion before January 1, 2020

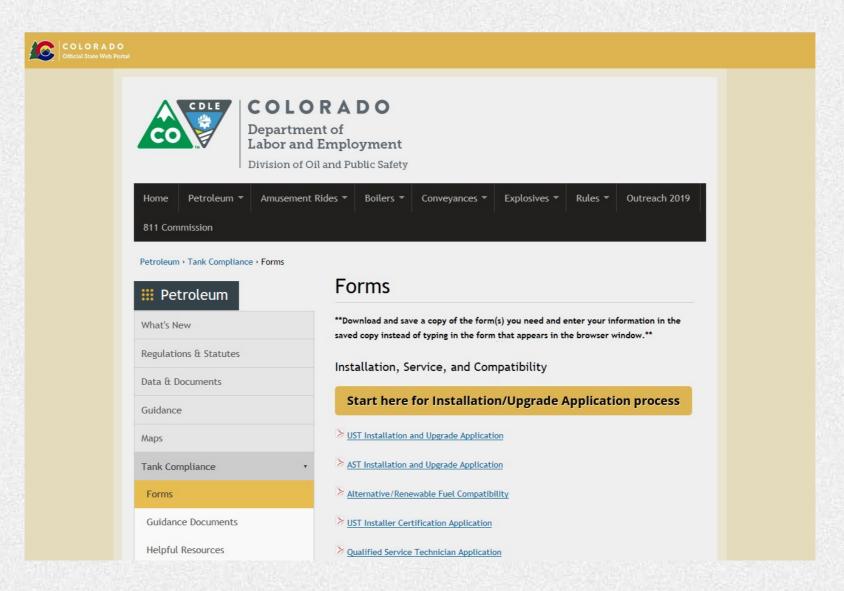






Updates to the Certified UST Installer Requirements

The UST Installer Certification Application is available for download on the OPS website.











Beginning January 1, 2020, much of the work performed on UST systems in Colorado must be performed by an OPS-certified QST. Examples include (but are not limited to):

- The installation, repair, replacement, maintenance, and calibration of all UST leak detection monitoring equipment
- Repair or maintenance of UST equipment, including replacing spill buckets, overfill prevention devices, and piping components such as flex connectors and penetration fittings located within piping containment sumps
- Annual functionality testing and certification of ATGs and other UST system monitoring equipment
- Secondary containment testing (including at installation, routine periodic, and any others that are required)







To become an OPS-certified QST, applicants will need to provide:

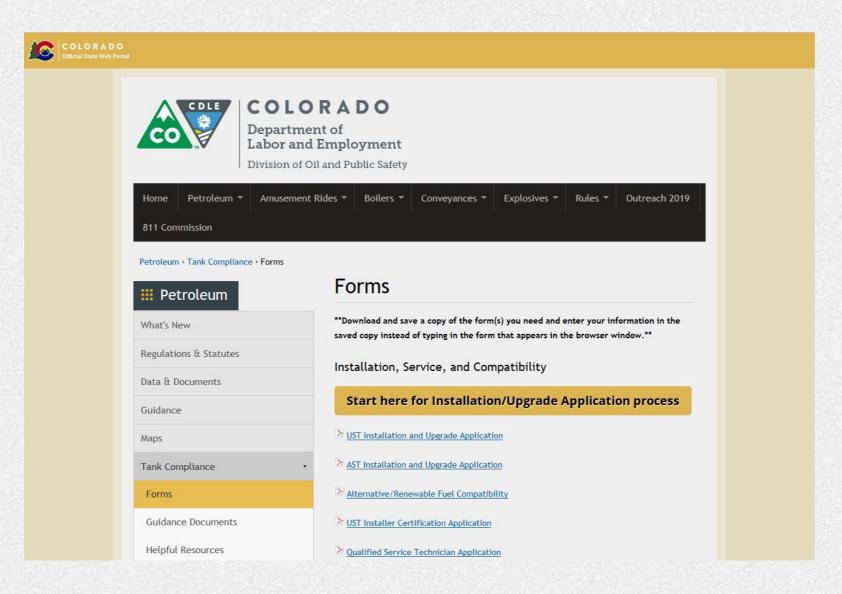
- A completed Qualified Service Technician Application
- A Certificate of Completion from PEI for the Service Technician Training Course exam
- A Certificate of Completion from PEI for the RP900-17 UST Inspection and Maintenance exam







The Qualified Service Technician Application is available for download on the OPS website.









Release Detection for Emergency Generator USTs

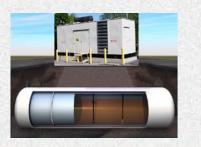




Release Detection for Emergency Generator USTs

UST Systems storing fuel solely for use by emergency power generators (or those connected to both e-gens and boilers such as at some hospitals) were previously deferred from needing to meet release detection requirements. These systems are now required to perform, document, and maintain release detection for underground tanks and underground piping as follows:

- For new systems installed since January 1, 2017 must begin upon being placed in service
- For systems existing before January 1, 2017 must begin by January 1, 2020
 - These systems were already required to meet spill protection, overfill prevention, corrosion protection and secondary containment requirements.

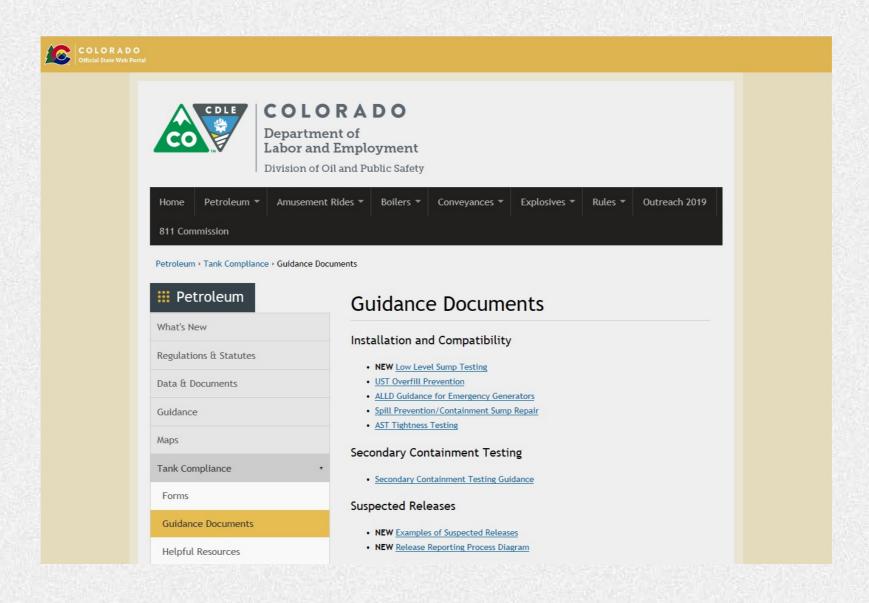


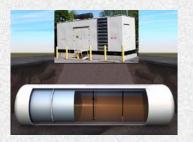




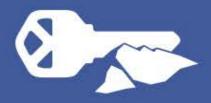
Release Detection for Emergency Generator USTs

The Automatic Line Leak Detector (ALLD) guidance document for e-gens is available for download on the OPS website.









Questions? Go to menti.com

KEYS TO COMPLIANCE COLORADO DIVISION OF OIL & PUBLIC SAFETY