



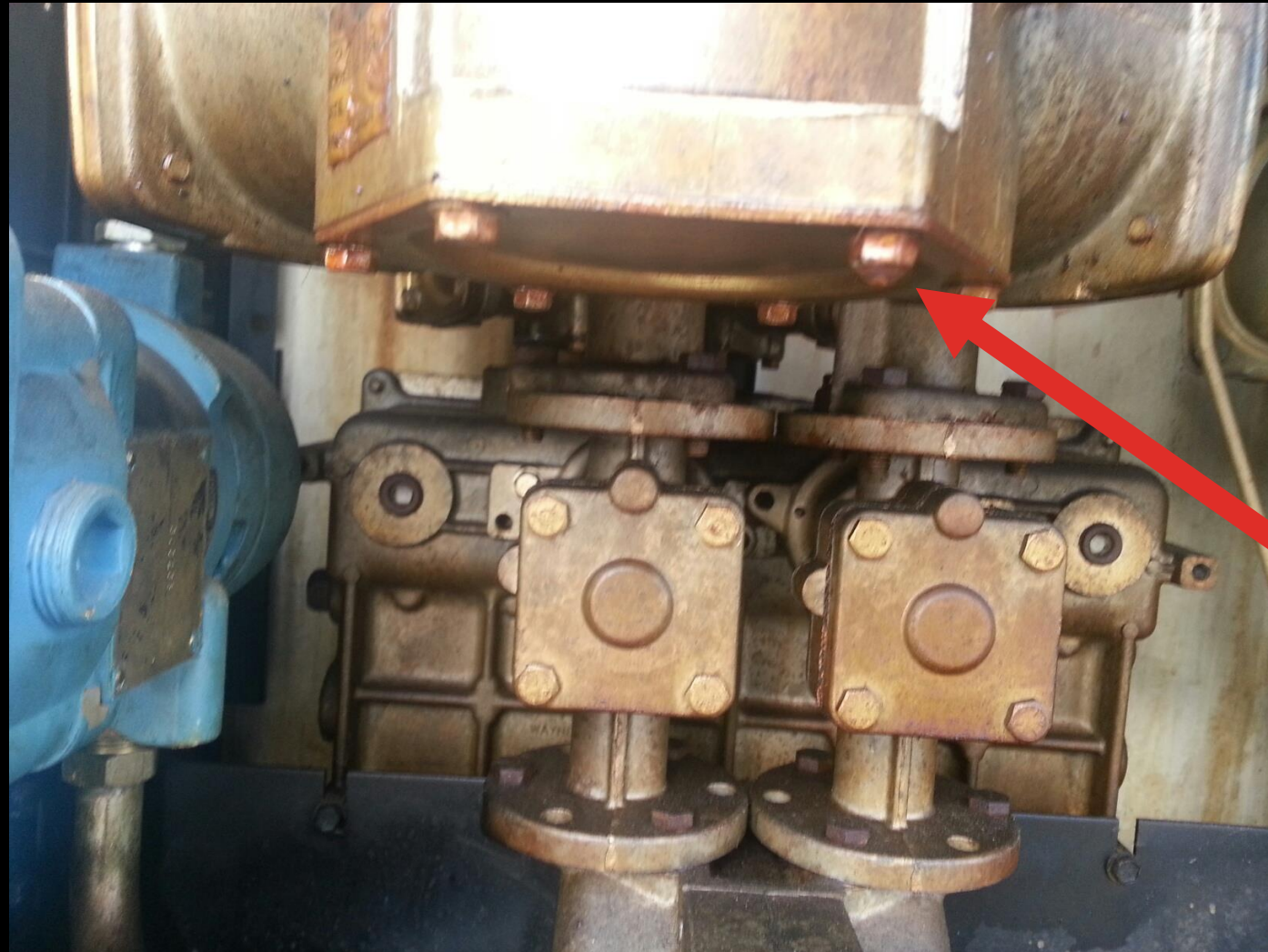
CORROSION AND RELATED ISSUES FOUND DURING INSPECTIONS

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ASTSWMO Emerging Fuels Task Force

LEAKING DISPENSER METER



LEAKING FILTERS



CORROSION UNDER TOGGLE CAP



CORRODED RISER



DISPENSER METER SCREEN



THIS IS NOT A FILTER!

This O/O had trouble dispensing due to clogged filters. So rather than investigate the cause, he decided to not use filters at all, and replaced them with test caps. His problems were much worse than he thought...



CORROSION HOLE THROUGH ANNULAR RISER

...He had a significant issue with microbes and corrosion. His annular sensor was in alarm due to this corrosion hole at the bottom of his riser. This tank was subsequently removed.



DAMAGED PLLD



STP CORROSION



TOP OF STRIKE PLATE

This is a strike plate from beneath the fill of a 7 year old fiberglass-coated steel tank that began with a small amount of water in the annular space that turned to diesel a few weeks later...



BOTTOM OF STRIKE PLATE

The corners of the plate were no longer welded to the bottom, and the inner steel wall of the tank was pitted much like the bottom of this strike plate. The liquid from the tank bottom was seeping into the annular space.



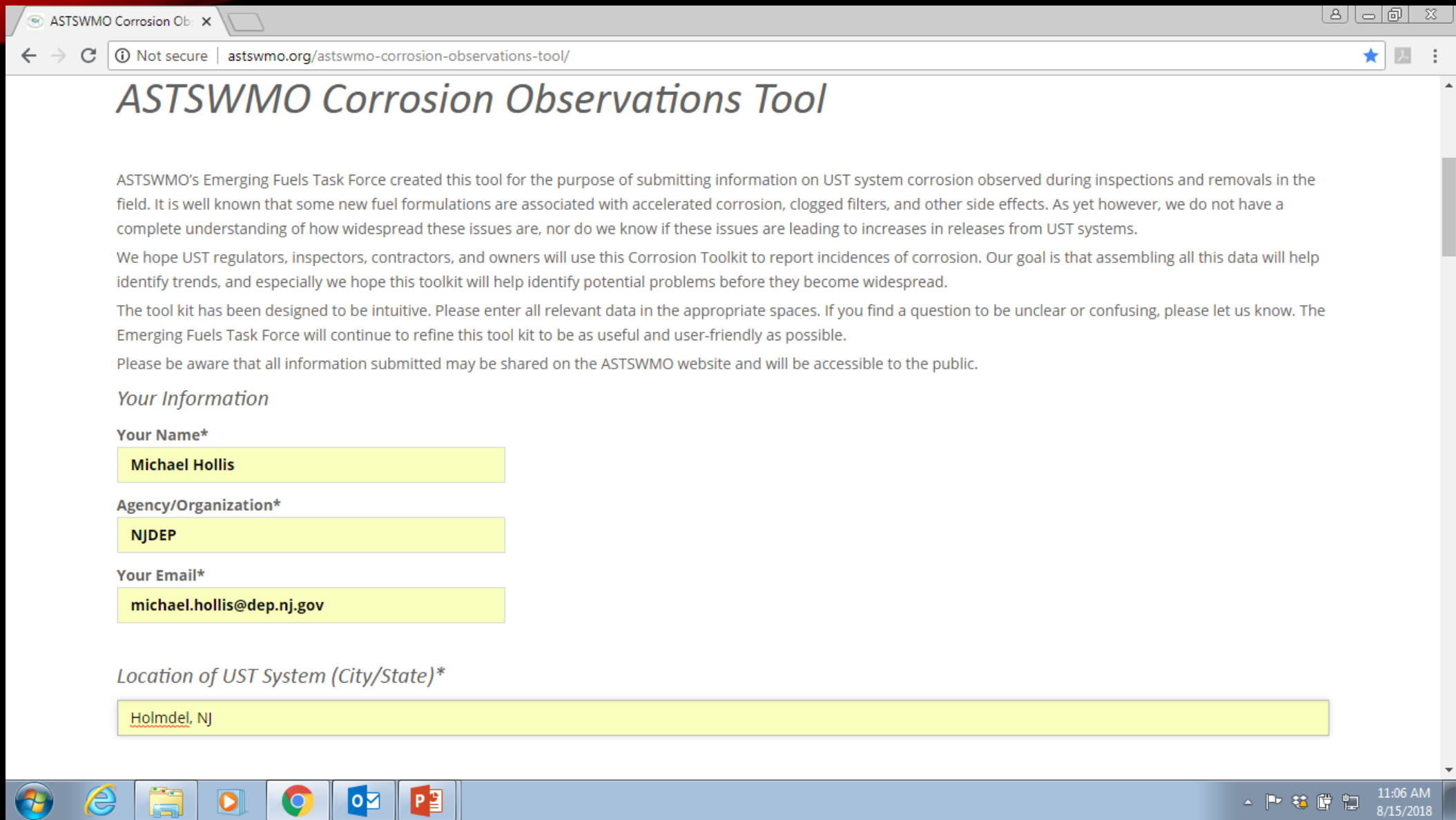
EFTF CORROSION REPORTING TOOL

<http://astswmo.org/astswmo-corrosion-observations-tool/>

If you find anything that looks like what you're seeing here today, we now have a way to report it!



EFTF CORROSION REPORTING TOOL



The screenshot shows a web browser window with the title "ASTSWMO Corrosion Ob: x". The address bar shows "Not secure | astswmo.org/astswmo-corrosion-observations-tool/". The page title is "ASTSWMO Corrosion Observations Tool". The main content area contains a paragraph explaining the tool's purpose, followed by instructions for users. Below this is a form titled "Your Information" with fields for "Your Name*", "Agency/Organization*", "Your Email*", and "Location of UST System (City/State)*". The form fields are highlighted in yellow. The Windows taskbar is visible at the bottom, showing icons for Internet Explorer, File Explorer, Google Chrome, Outlook, and PowerPoint. The system clock shows 11:06 AM on 8/15/2018.

ASTSWMO Corrosion Ob: x

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ASTSWMO Corrosion Observations Tool

ASTSWMO's Emerging Fuels Task Force created this tool for the purpose of submitting information on UST system corrosion observed during inspections and removals in the field. It is well known that some new fuel formulations are associated with accelerated corrosion, clogged filters, and other side effects. As yet however, we do not have a complete understanding of how widespread these issues are, nor do we know if these issues are leading to increases in releases from UST systems.

We hope UST regulators, inspectors, contractors, and owners will use this Corrosion Toolkit to report incidences of corrosion. Our goal is that assembling all this data will help identify trends, and especially we hope this toolkit will help identify potential problems before they become widespread.

The tool kit has been designed to be intuitive. Please enter all relevant data in the appropriate spaces. If you find a question to be unclear or confusing, please let us know. The Emerging Fuels Task Force will continue to refine this tool kit to be as useful and user-friendly as possible.

Please be aware that all information submitted may be shared on the ASTSWMO website and will be accessible to the public.

Your Information

Your Name*

Michael Hollis

Agency/Organization*

NJDEP

Your Email*

michael.hollis@dep.nj.gov

Location of UST System (City/State)*

Holmdel, NJ




11:06 AM 8/15/2018

EFTF CORROSION REPORTING TOOL

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What equipment was corroded and how severe? Use the example photos below to help with your response.

Low to Moderate	Significant	Severe
		

Tank or tank lining

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

Submersible turbine pump area

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☒ Severe Corrosion

Drop tube or overfill prevention device

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

Automatic tank gauge components

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

11:08 AM 8/15/2018

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☐ Low to Moderate Corrosion ☐ Significant Corrosion ☒ Severe Corrosion

Drop tube or overfill prevention device

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

Automatic tank gauge components

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

Flexible connectors

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

Other connection Points

☐ Low to Moderate Corrosion ☐ Significant Corrosion ☐ Severe Corrosion

What is the estimated age of the component*

☐ Less than 5 years

☐ 5-10 years

☐ 11-20 years

☒ 21-30 years

☐ Greater than 30 years

☐ Unknown

Was there a release from the system associated with the corrosion?*

☐ Yes

11:13 AM 8/15/2018

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Was there a release from the system associated with the corrosion?*

☐ Yes

☒ No

What fuel was being stored in this UST system

☒ Gasoline with up to 10% ethanol (E0 to E10)

☐ Gasoline with more than 10% ethanol (E15+)

☐ Ultra Low Sulfur Diesel (ULSD) - conventional Diesel sold in US

☐ Biodiesel or ULSD with more than 5% biodiesel

☐ Other

If Other:

Was there a method of corrosion protection installed prior to observation?*

☐ Yes

☒ No

11:40 AM
8/15/2018

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If corrosion protection was installed, please provide information on method/type:

How was the corrosion discovered?*

☒ Visual Observation

☐ Clogged fuel Filters

☐ inoperable equipment

☐ Other

If Other:

11:43 AM 8/15/2018

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Additional Information

Narrative Description of Issue, including any findings and resolutions:

NOV issued for vapor leak in STP sump

Upload any pictures or public file information you would like to share with ASTSWMO. Accepts pdf, jpg, png, and gif formats.

Choose File 20171129_103005.jpg

✓ I'm not a robot reCAPTCHA Privacy - Terms

SEND

11:53 AM 8/15/2018