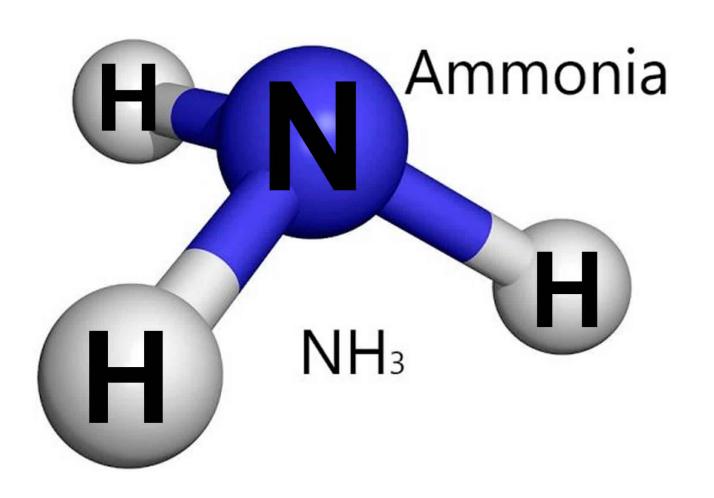
Illicit Discharge



 Received a call from the Irving Fire Department about a heavy ammonia smell coming from a storm drain inlet box at the 1500 blk of Brentwood Dr.



 This is a residential area with some light commercial North of the neighborhood.



- Upon arrival, we noticed a smell that smelled just like smelling salts.
- We referred to our storm drainage maps to determine where it could be coming from.
- South of the neighborhood, the creek is accessible so we took a ammonia test with a HACH test kit and the results were off the charts.
 >8ppm



- We began to trace upstream following our maps, and noses, popping manholes looking for the source.
- On the North side of Airport Frwy, we found a area where the runoff from several industrial complexes enters the main stem of this storm drain system.
- Ammonia readings were taken at this location with off the chart readings.



 The source of the ammonia was quickly traced to a beverage company.

 Irving FD was called to our location and Irving's FD Hazmat team responded.

 Contact was made with employees of the Industry and the Hazmat team made entry to find a source.

 There was also a heavy ammonia smell in the sanitary sewer system so members of Irving's pretreatment team responded to the scene.

 While the hazmat team searched inside, we searched the perimeter of the industry and this is what we found.









 The Industry was doing maintenance on their refrigerant system and had to empty the ammonia from the system.

 Failed procedures caused a drum to overflow and enter the MS4.



 The Industry had a environmental cleanup company clean the spill. The spill was contained and remediated throughout the night.

 A citation and a compliance order was issued to the Industry.

Questions?



Now this is not the end. It is not even the beginning of the end. But it is, perhaps, the end of the beginning.

(Winston Churchill)

izquotes.com

Links about NH3

- https://www.epa.gov/sites/production/files/2015 05/documents/accident prevention ammonia refrigeration 5-20-15.pdf
- https://www.tceq.texas.gov/assets/public/implementation/tox/dsd/final/ammonia .pdf

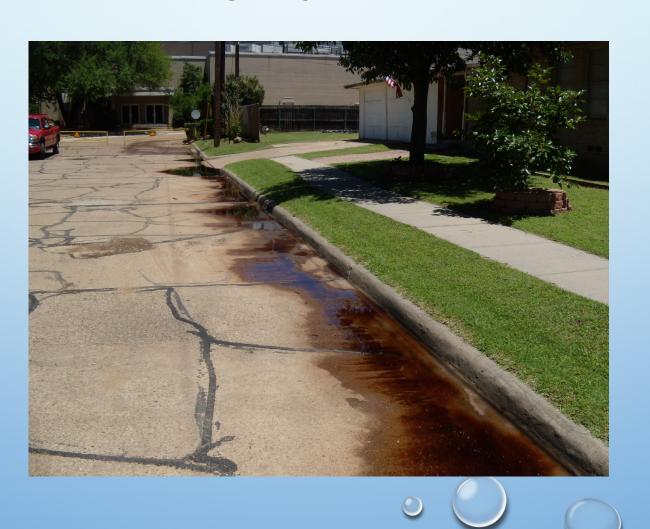
 https://agrilifeextension.tamu.edu/library/farming/preventing-theft-of-anhydrousammonia/

COMPLAINT ABOUT OIL SPILL

FIRE DEPARTMENT FIRST ON THE SCENE

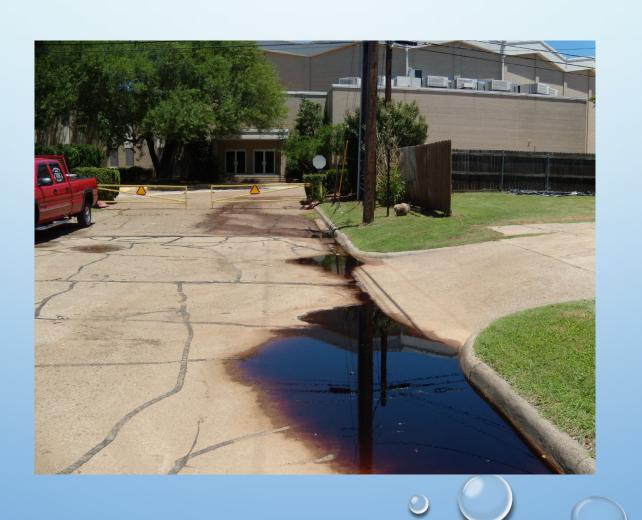


OIL SPILL?





OIL SPILL?



FIRE DEPARTMENT TEST STRIPS SHOWED NO HYDROCARBONS

PH TEST STRIPS SHOWED A LOW PH AROUND 6

VISCOSITY WAS VERY THIN UNLIKE OIL

SMELLED UNLIKE OIL AND MORE LIKE DECAYING ORGANIC MATTER



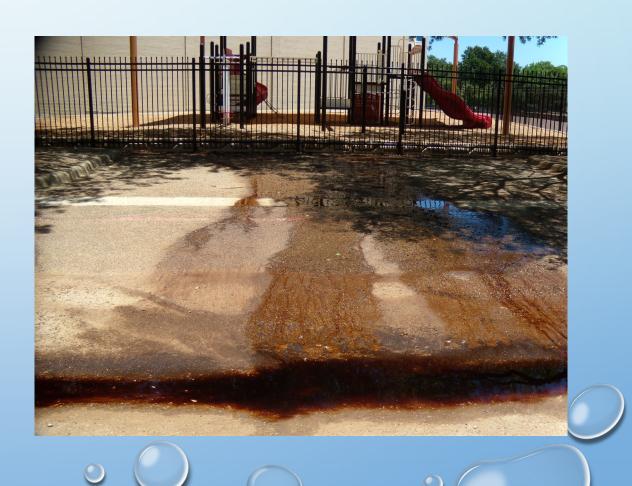
BUT FROM WHERE?





UNDER THE PLAYGROUND?





RAIN CAUSED? YES! A STORM POURED .45" OF RAIN THAT MORNING

FRESH NEWLY PLACED MULCH HAD TOO MUCH TO DRINK AND LEACHED ALL THE DYE IN THE MULCH



WE VACUUMED UP ALL THE RUNOFF JUST ABOVE A STORM INLET. CASE STUDY CLOSED. NICE FISH!

