

Flint Water Emergency



MICHIGAN STATE POLICE
EMERGENCY MANAGEMENT & HOMELAND SECURITY DIVISION

CAPT. CHRIS A. KELENSKE | 2017

CITY OF FLINT

- Largest city and county seat of Genesee County, MI
- 66 miles northwest of Detroit, MI
- Population – 102,434 (2010 Census)
- Seventh largest city in MI



- Emergency Management delegated to the County
- Flint does not have an emergency management program



- Has become known for its high crime rates
- Ranked among the “Most Dangerous Cities in the United States
- Emergency Financial Manager in place when the water emergency occurred

FLINT WATER EMERGENCY

- 4/25/14: Flint switches from Detroit water system to Flint River
- 10/1/15: Public Health Emergency Declaration Issued (local)
- 10/16/15: Switched back to Detroit water system
- 12/14/15: Local state of emergency declared by Flint
- 1/4/16: Genesee County declares local state of emergency
- 1/5/16: Governor declares state of emergency
- 1/7/16: EMHSD staff deployed to LEOC
- 1/8/16: FEMA LNOs arrive at SEOC
- 1/9/16: 5 PODs open at fire stations
 - Too small, safety concerns/accessibility, supplies
- 1/10/16: 9 Churches provided commodities for distribution after Sunday services

GETTING THE LEAD IN

Tests show toxic lead is leaching into Flint's tap water. Here's how.

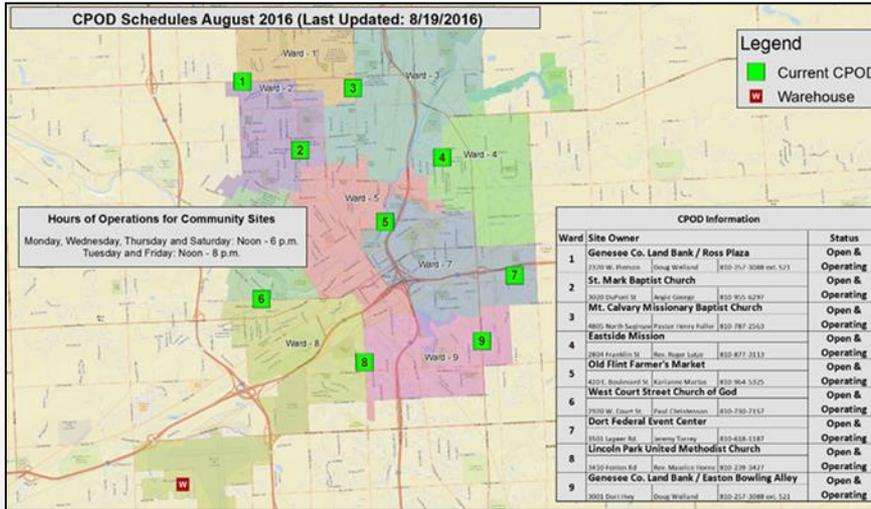


FLINT WATER EMERGENCY

- 1/12/16: State and local WRTs in the neighborhoods
- 1/14/16: Governor requests Major Disaster Declaration
 - 1/16 Major Disaster Denied
- 1/23/16: 18 NG/state/local and 40 ARC Water Response Teams in neighborhoods

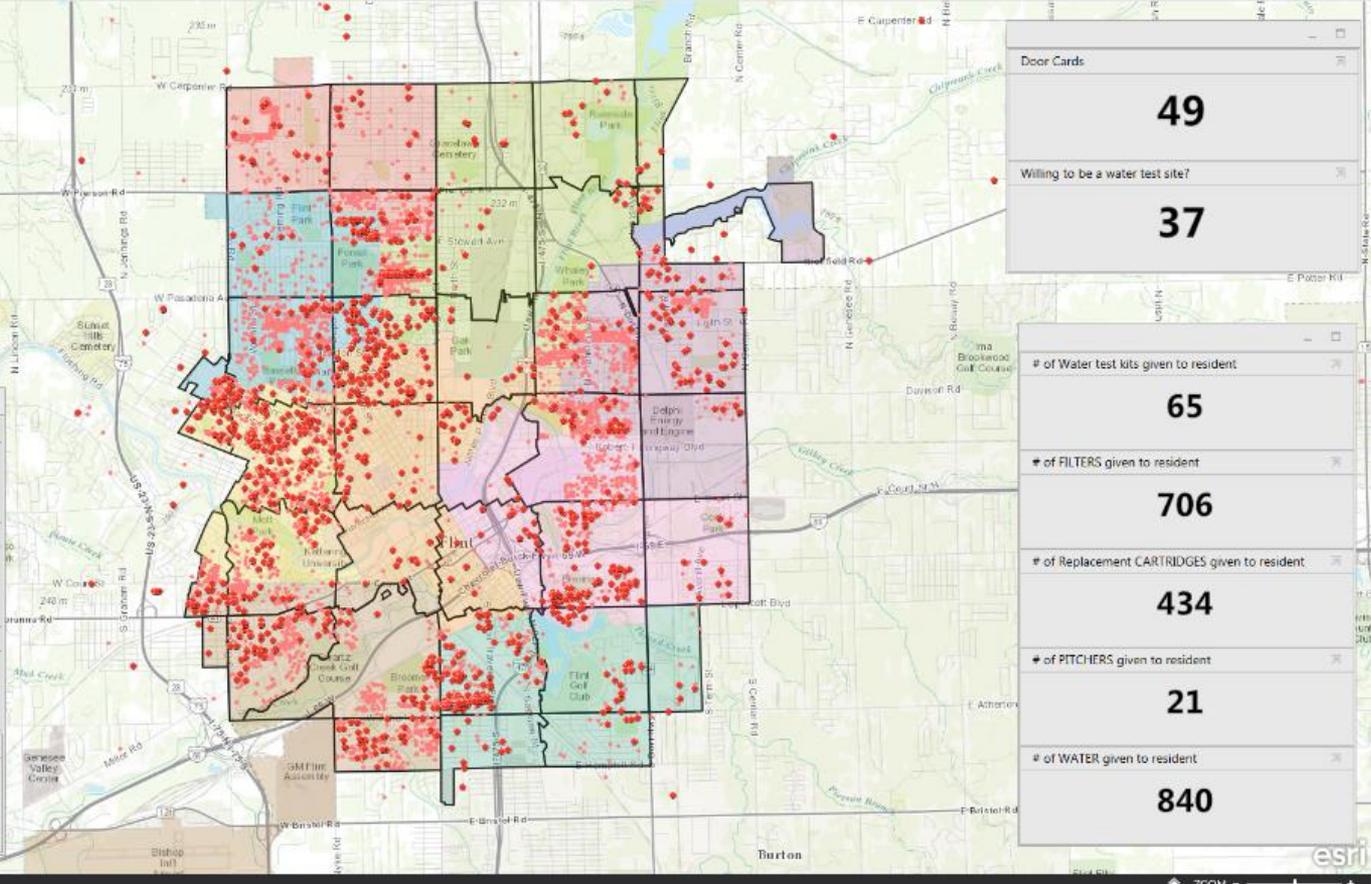


Credential





| | |
|---------------|---------------|
| Single Tenant | Multi Tenant |
| 638 | 52 |
| Not Home | No Aid Needed |
| 191 | 34 |
| Destroyed | Vacant |
| 4 | 18 |
| Unknown | No data |
| 9 | 408 |

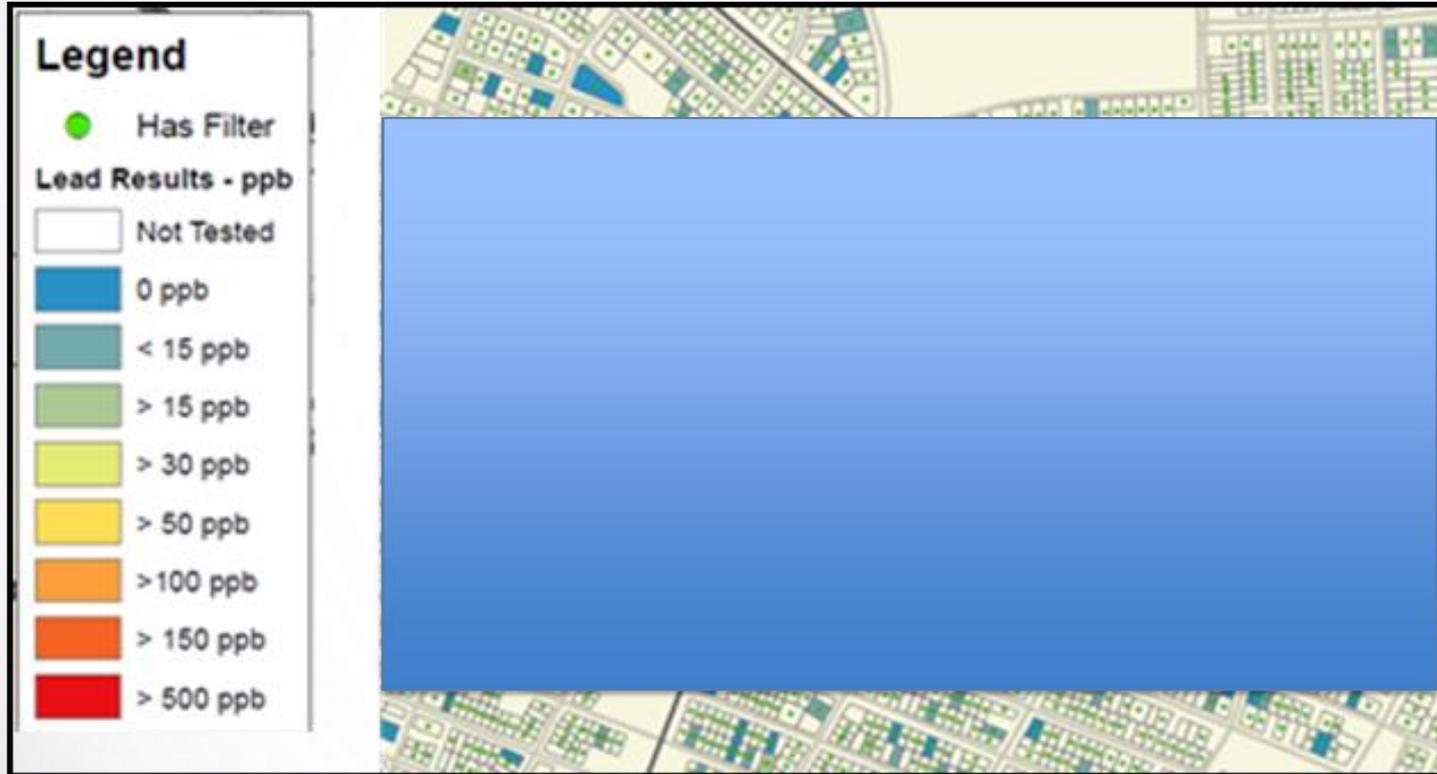


| | |
|----------------------------------|-----------|
| Door Cards | 49 |
| Willing to be a water test site? | 37 |

| | |
|---|------------|
| # of Water test kits given to resident | 65 |
| # of FILTERS given to resident | 706 |
| # of Replacement CARTRIDGES given to resident | 434 |
| # of PITCHERS given to resident | 21 |
| # of WATER given to resident | 840 |



GIS RESOURCES



GIS RESOURCES



GIS RESOURCES - DDACTS



Legend

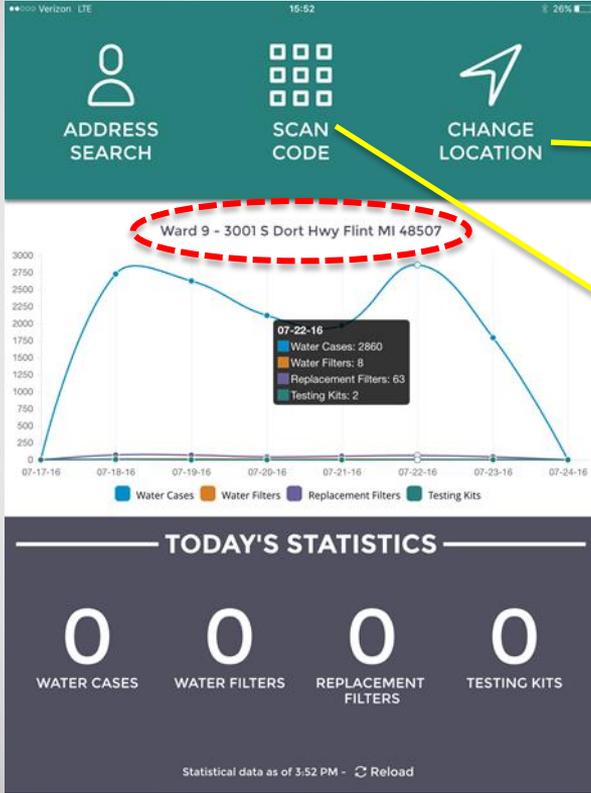
-  Current CPOD
-  Warehouse
-  Local EOC
-  Violent Crime

Offense:

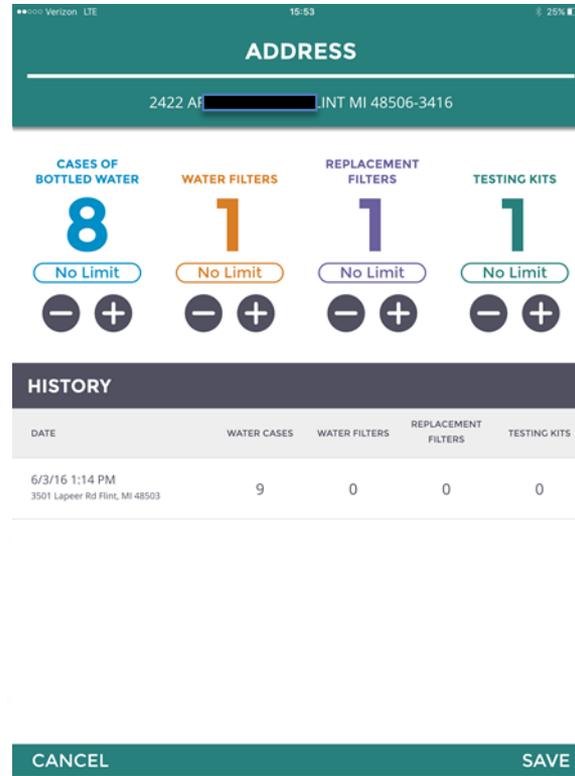
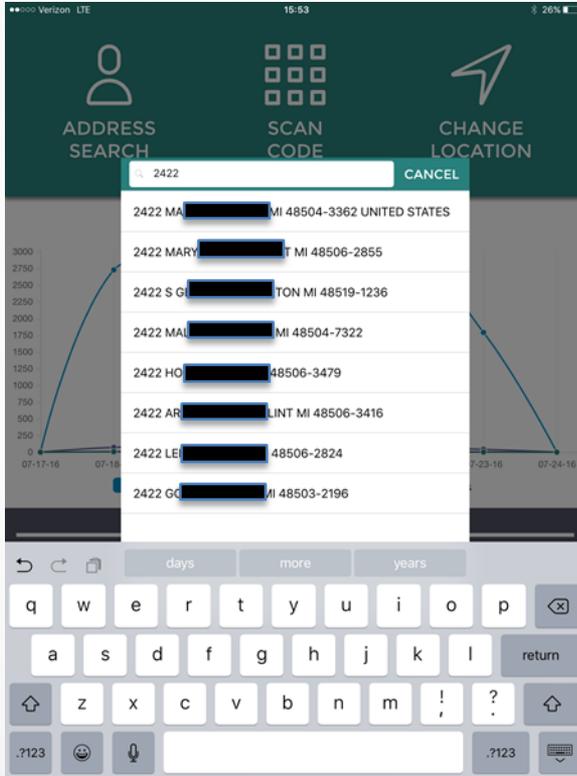
-  Murder
-  Rape
-  Robbery
-  Assault
-  Weapons
-  Drugs



GIS RESOURCES – POD APPLICATION



GIS RESOURCES – POD APPLICATION



TRACKING COMMODITIES

Commodity Totals

| | <u>Purchased Through Yesterday</u> | | <u>Distributed Through Yesterday</u> | |
|------------|------------------------------------|--------|--------------------------------------|--------|
| Water* | 36,084,731 | liters | 30,389,587 | liters |
| | 3,007,061 | cases | 2,532,466 | cases |
| Filters | 270,551 | | 133,984 | |
| Cartridges | 813,623 | | 293,778 | |
| Test Kits | 66,301 | | 53,736 | |

*(includes donated water)

Yesterday

| | |
|------------------------|--------|
| Homes Visited | 260 |
| Cases Distributed | 10,343 |
| Filters Distributed | 249 |
| Cartridges Distributed | 393 |
| Test Kits Distributed | 60 |
| Volunteers | 0 |
| National Guard | 0 |

Average Burn Rate

| | |
|------------|----------------|
| Water | 130,794 liters |
| | 10,900 cases |
| Filters | 215 |
| Cartridges | 371 |
| Test Kits | 77 |

Warehouse Inventory

| | |
|-----------|--------|
| 1,228,570 | liters |
| 102,381 | cases |
| 44,208 | |
| 569,402 | |
| 9,600 | |

Days to Depletion as of Yesterday

| |
|----------|
| 9.4 days |
| 206.1 |
| 1,534.8 |
| 125.2 |



TRACKING OUTREACH

Outreach Through Yesterday

| <u>Active Water Customers - Houses</u> | | |
|--|---------------|---------------|
| Visited | 27,893 | 100.0% |
| Not Visited | 0 | 0.0% |
| <i>Total</i> | <i>27,893</i> | <i>100.0%</i> |

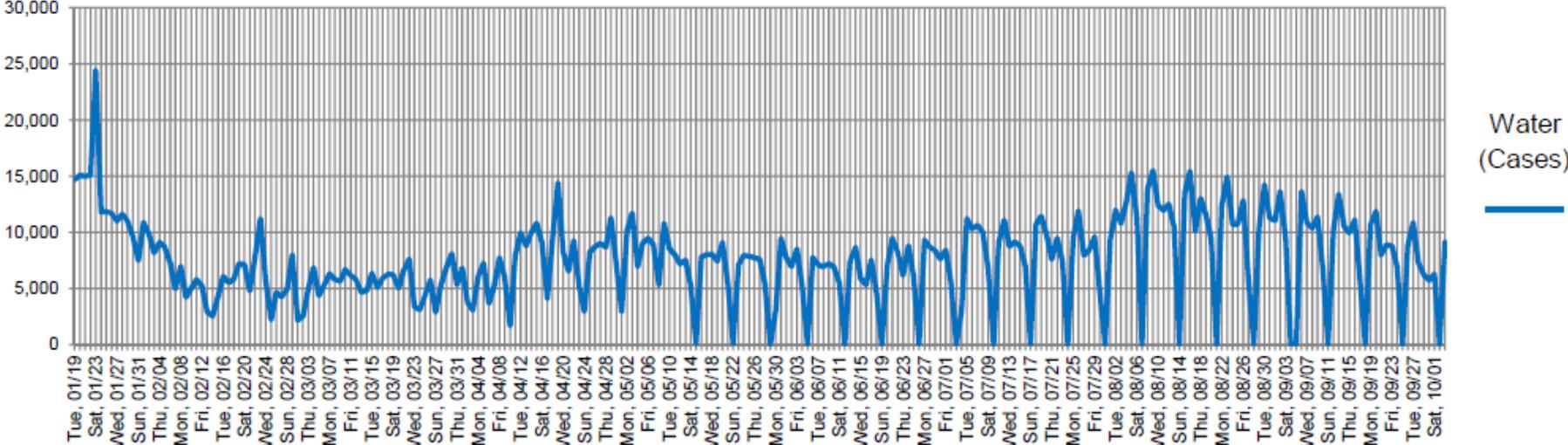
| <u>Breakdown of Visited Customers</u> | | | |
|---------------------------------------|---------------|---------------|-----------------------------|
| Visted; Confirmed Filters | 26,364 | 94.5% | of visited customers |
| Visited but Unconfirmed Filters | 1,529 | 5.5% | of visited customers |
| <i>Total</i> | <i>27,893</i> | <i>100.0%</i> | <i>of visited customers</i> |

| <u>Active Water Customers - Apartments</u> | | |
|--|--------------|---------------|
| Recorded Visits | 5,658 | 88.7% |
| Attested but Unrecorded Visits | 722 | 11.3% |
| Not Visited | 0 | 0.0% |
| <i>Total</i> | <i>6,380</i> | <i>100.0%</i> |

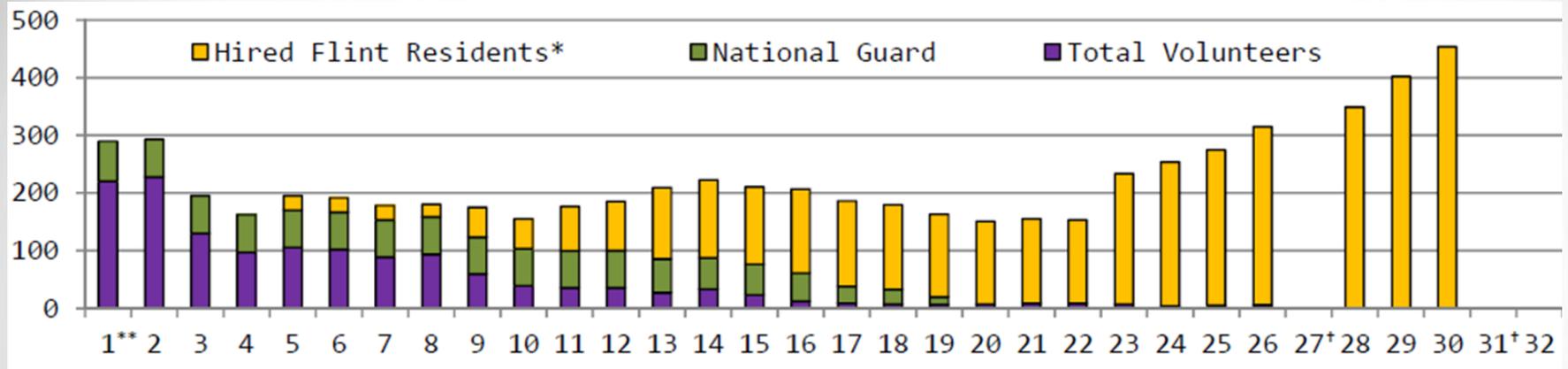
| <u>Breakdown of Apartments</u> | | | |
|--|--------------|---------------|---------------------------|
| Recorded Visit; Provided a Filter | 5,658 | 100.0% | of recorded visits |
| Recorded Visit; Did Not Provide a Filter | 0 | 0.0% | of recorded visits |
| <i>Total</i> | <i>5,658</i> | <i>100.0%</i> | <i>of recorded visits</i> |



TRACKING OUTREACH



HIRING PERSONNEL



DONATIONS MANAGEMENT

- Challenging to manage
 - Dedicate the appropriate resources to track and manage the donations and volunteers.
- Arrived in multiple ways and quantities
- Single warehouse just for donations
- Standards put in place
 - Filter types
 - 6 months prior to expiration date
 - No single bottles at state warehouse
 - Under 100 cases went to faith based
 - No carbonated water
 - No water with broken seals



MISCELLANEOUS

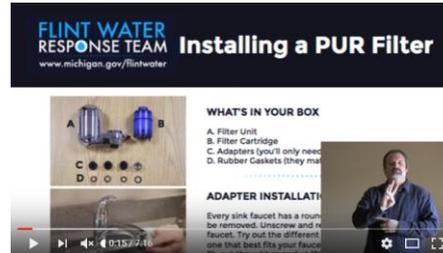
Investigations

- Be prepared to have investigative resources assist
- Cyber
- Fraud



Translations

- Need to be done timely and accurately
- Do not forget about the deaf and hard of hearing populations



MISCELLANEOUS

School

- Sampled schools, day cares, foster and health care facilities
- Find plumbing parts (fittings) that could have lead associated with them – replace them
- Inline filters may not address lead if the fixture or fittings have lead containing components

Agriculture

- Every food business needed to be tested (381)
- Results ranged from no lead to high levels (follow up required)
- Coordinated local urban agriculture and gardening groups to include testing canned food (one was elevated)
- Pets
 - Multiple testing clinics
 - Some animals did have elevated lead levels

CORE Teams





**A PROUD tradition of SERVICE, through
EXCELLENCE, INTEGRITY, AND COURTESY**

