



**Customer DISTRICT OF COLUMBIA  
WATER AND SEWER AUTHORITY**  
BOARD OF DIRECTORS

*WATER QUALITY AND WATER SERVICES  
COMMITTEE MEETING AGENDA*

**Thursday, January 15, 2015  
11:30 a.m.**

**5000 Overlook Avenue, SW  
Washington, DC 20032**

- |  |                              |
|--|------------------------------|
| <b>11:30 a.m. I. Call to Order</b>                     | Rachna Butani<br>Chairperson |
| <b>11:35 a.m. II. Discussion of Committee Schedule</b> | Rachna Butani                |
| <b>11:40 a.m. III. Water Quality Monitoring</b>        | Charles Sweeney              |
| Coliform Testing                                       |                              |
| LCR Compliance Testing                                 |                              |
| <b>11:45 a.m. IV. Fire Hydrant Upgrade Program</b>     | David Wall                   |
| Status Report of Public Fire Hydrants                  |                              |
| Out of Service Fire Hydrant Map                        |                              |
| <b>12:00 p.m. V. “Do not Drink Advisory Update”</b>    | Jason Hughes                 |
| <b>12:15 a.m. VI. Executive Session*</b>               |                              |
| Adjournment  |                              |

\*The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(1); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.

**Status Report of Public Fire Hydrants for DC Water Services Committee - January 5, 2015**

	October Cmte. Report (Oct 01, 2014)	November Cmte. Report (Nov 04, 2014)	December Cmte. Report (Dec 01, 2014)	January Cmte. Report (Jan 05, 2015)
Public Fire Hydrants:	9,459	9,455	9,460	9,461
In Service:	9,334	9,328	9,345	9,340
Marked Out-of-Service (OOS)	125	127	115	121
OOS - defective requiring repair/replacement	61	61	53	60
<b>% OOS requiring repair or replacement (DC Water goal is 1% or less OOS)</b>	<b>0.64%</b>	<b>0.65%</b>	<b>0.56%</b>	<b>0.63%</b>
OOS - due to inaccessibility or temp construction work	64	66	62	61

Note: The number of public hydrants in the DC Water system fluctuates; this number fluctuates as hydrants are added and removed during development or construction activities as well as at the request of the Fire Dept.

**Breakdown of Public Fire Hydrants Out-of-Service (OOS) as of January 5, 2015 121**

**Breakdown of Defective**

	0-7 Days	8-14 Days	15-30 Days	31-60 Days	61-90 Days	91-120 Days	> 120 Days	Total
Hydrant Needs Repair/Investigation	3	0	2	0	0	0	5	10
Needs Valve Investigation for Low Flow/Pressure or Shut Test for Replacement	0	0	5	4	2	1	9	21
Needs Replacement	0	0	2	0	1	2	24	29

**Defective 60** ←

**Breakdown of Others**

	0-7 Days	8-14 Days	15-30 Days	31-60 Days	61-90 Days	91-120 Days	> 120 Days	Total
Temporarily OOS as part of operations such as a main repair	0	0	0	4	8	0	12	24
Construction* - OOS	0	0	0	2	1	0	31	34
Obstructed Hydrant – OOS hydrant due to operation impeded by an obstruction.	0	0	0	0	0	0	3	3

**Others 61** ←

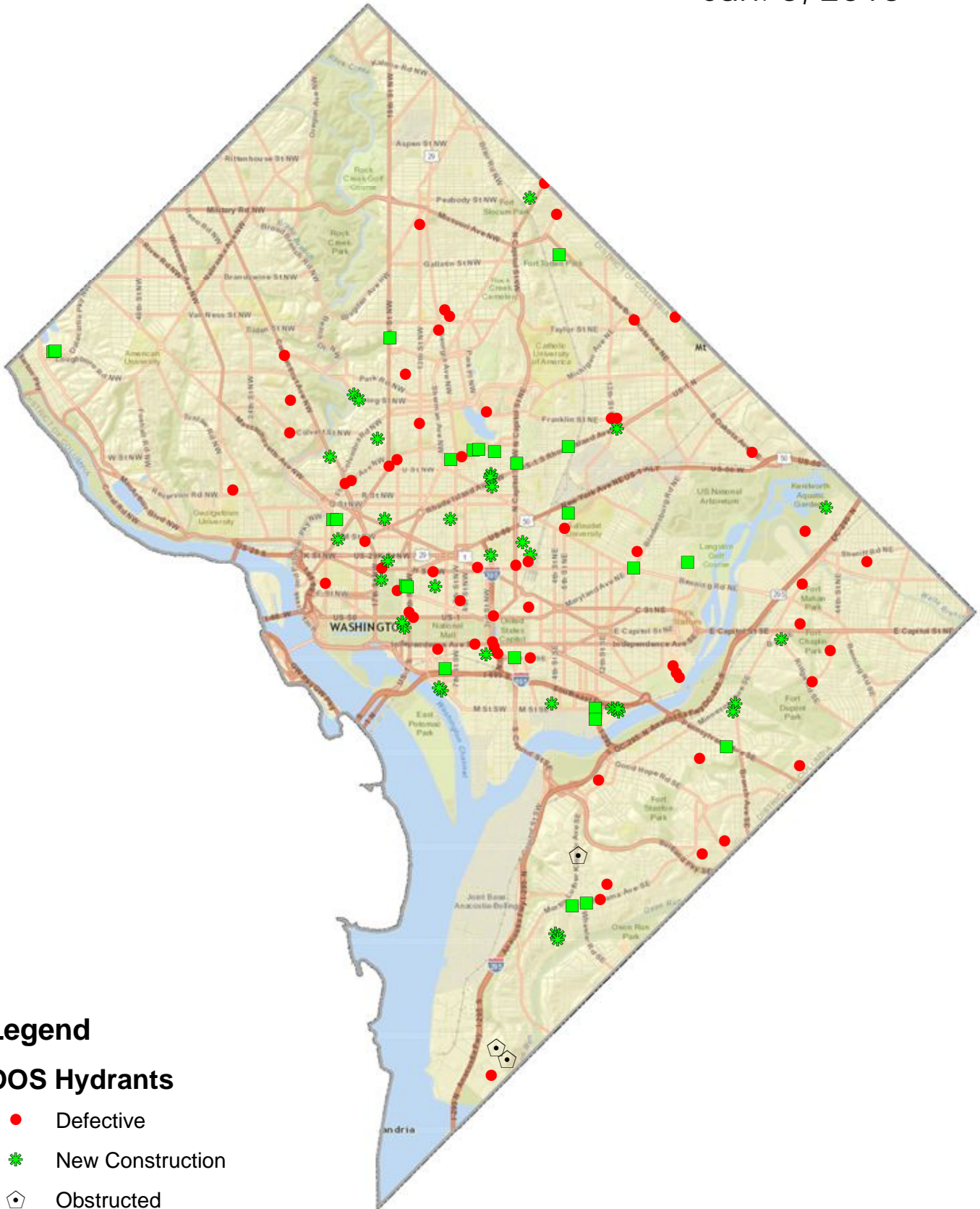
\*Fire hydrants not accessible due to construction activities. Also includes new hydrants which have not yet been commissioned or old hydrants which will be abandoned as part of ongoing construction projects.

**Status of Private Fire Hydrants-Based on FEMS Inspection Reporting**

Private Hydrants:	1,321
• In Service:	1,196
• Out-of-Service (OOS):	125

# Map of Public Out-of-Service Hydrants

Jan. 5, 2015



## Legend

### OOS Hydrants

- Defective
- \* New Construction
- ⬠ Obstructed
- Temporary



# Petroleum @ R Street NW

Operational Incident Overview:  
Department of Water Services

January 15, 2015



## Petroleum @ R St NW: Operational Incident Overview

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- AGENDA
  - Incident Summary
  - Operational Highlights
  - Next Steps
  - Questions





## Petroleum @ R St NW: Operational Incident Overview





## Petroleum @ R St NW: Operational Incident Overview

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- **INCIDENT SUMMARY**

- Wednesday December 17, 2014

- Fire Department & Hazmat team responded to reports of petroleum-type odor in the water in the vicinity of 8<sup>th</sup> St NW, 13<sup>th</sup> St NW, and R St NW. District Department of the Environment (DDOE) also responded.
- As part of the DDOE response, they contacted the 33<sup>rd</sup> National Guard Civil Support Team (CST) to provide localized water sampling.
- Initial field test conducted by CST indicated the presence of an unidentified petrochemical substance; no determination of concentration levels or exact chemical at that time.



## Petroleum @ R St NW: Operational Incident Overview

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- **INCIDENT SUMMARY**

- Wednesday December 17, 2014 [continued]

- DC Water was notified of the initial test results and immediately dispatched crews to investigate the area. Crews identified unusual odors in the water at hydrants within the area.
- Based on these findings (CST and DC Water)
  - Boundaries of the impact area were set,
  - DC Water activated the Incident Management Team (IMT) with a ICP at Bryant Street and positioned the command van at the impacted area,
  - Implemented a DO NOT DRINK advisory to the impacted area at 3:30pm with Environmental Protection Agency (EPA) Region 3 in agreement with our recommendation.
- Sampling and flushing activities continued through the evening and into early hours of the next morning.





## Petroleum @ R St NW: Operational Incident Overview





## Petroleum @ R St NW: Operational Incident Overview

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- **INCIDENT SUMMARY**

- Thursday December 18, 2014

- Water samples collected from various locations within the impacted area were delivered to EPA Region 3 laboratory at Fort Meade, Maryland for petroleum hydrocarbon analysis.
- Duplicate samples were analyzed at the Washington Aqueduct laboratory for volatile organic compounds.
- Quench buggy was deployed near the impacted area.
- Initial results from the Fort Meade laboratory indicated the possible presence of a petroleum based compound described as having a thick motor oil consistency. They would complete the analysis overnight. [\[Please note that none of the information had been confirmed at that time.\]](#)



## Petroleum @ R St NW: Operational Incident Overview

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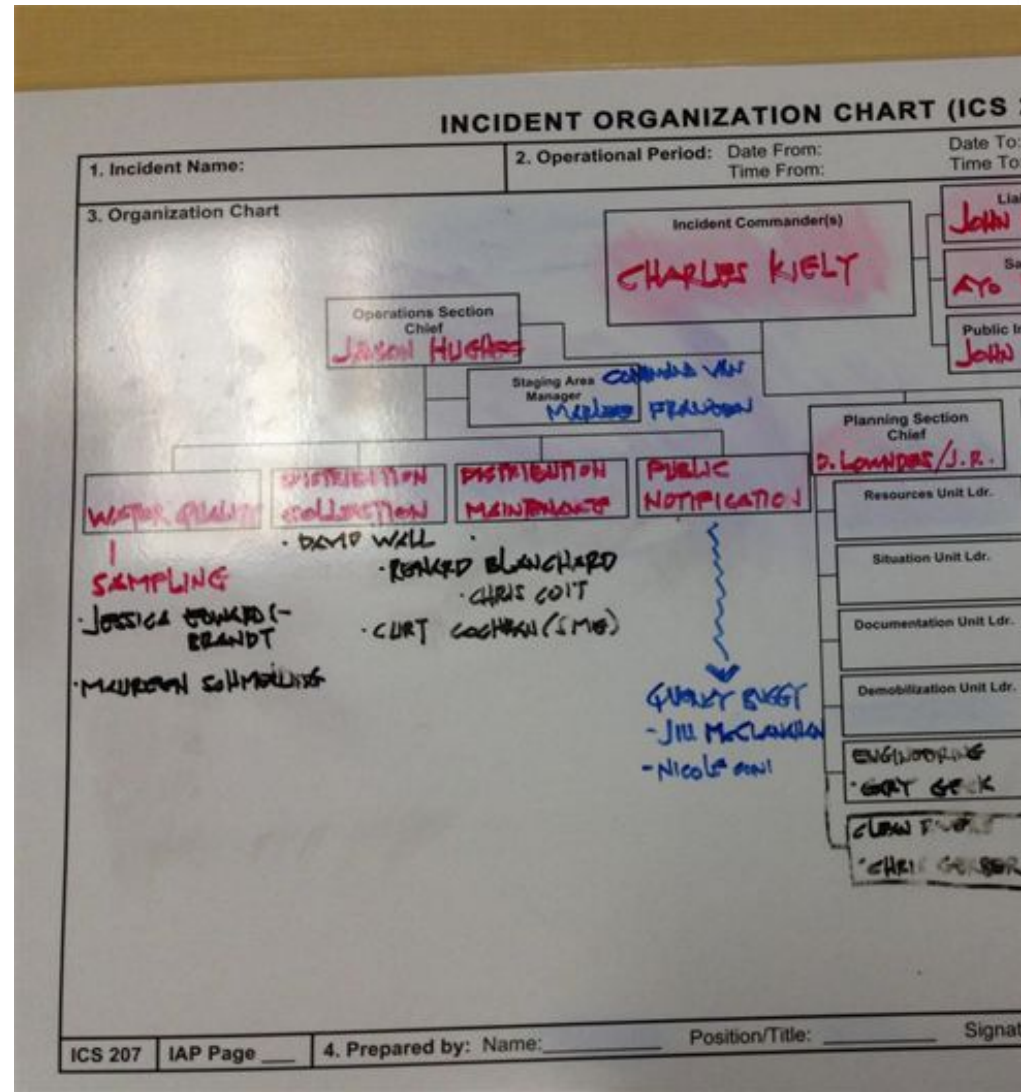
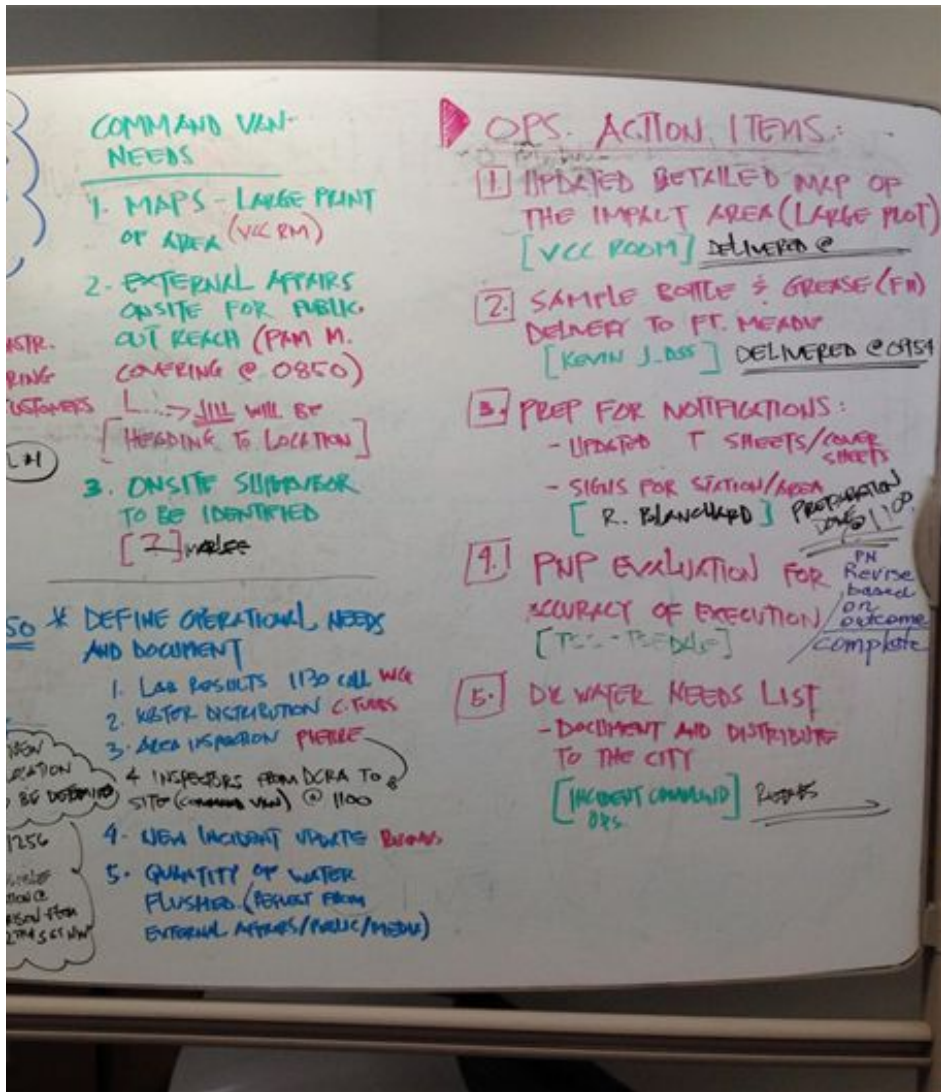
- **INCIDENT SUMMARY**

- Thursday December 18, 2014 [continued]

- Based on the initial results from Fort Meade, it was determined to continue the DO NOT DRINK Advisory. A second round of area wide flushing that evening and collection of additional samples was completed again throughout the night and early the next morning. Requested the 33<sup>rd</sup> CST to assist with additional on site analysis by 8:00am on the 19<sup>th</sup> and that ATSDR of CDC be available as a consultant to this event.
    - Washington Aqueduct laboratory results were negative for volatile organic compounds.
    - As the incident approached 72hrs, the DC Water Incident Management Team (IMT) discussed the inclusion of National Capitol Region (NCR) IMT support.



# Petroleum @ R St NW: Operational Incident Overview







## Petroleum @ R St NW: Operational Incident Overview

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- **INCIDENT SUMMARY**

- **Friday December 19, 2014**

- DC Water IMT briefed the District agencies on incident status and began developing operational support strategies; most notably “water distribution”.
- Quench buggy was deployed again near the impacted area.
- Fort Meade laboratory confirmed no petroleum hydrocarbons of concern were detected in the samples collected on Thursday, December 18<sup>th</sup>.
- EPA confirmed that the water met drinking water standards and the advisory notice could be lifted.





## Petroleum @ R St NW: Operational Incident Overview

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- **INCIDENT SUMMARY**

- Friday December 19, 2014 [continued]

- DC Water recommended that the DO NOT DRINK Advisory be lifted at 4:00pm.
    - A number of District and Federal agencies supported our IMT response and there were no dissenting opinions to the lift advisory.
    - Final public notification procedures were carried out and the DC Water IMT disassembled at 10:30pm and DC Water returned to normal operations.



## Petroleum @ R St NW: Operational Incident Overview





## Petroleum @ R St NW: Operational Incident Overview

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- OPERATIONAL HIGHLIGHTS
  - Team Blue
    - Drinking Water incident command transitioning from DDOE to DC Water was relatively seamless.
    - Water Services technical guidance throughout the incident was well received [i.e. sampling, flushing, & notice distribution].
    - Support services engagement/action was immediate and sustained from areas throughout the Authority;
      - Customer Care and Operations (CS, DSS, and DDCS)
      - Engineering & Technical Services
      - External Affairs
      - Fleet Services
      - Facilities
      - Office of the General Manager
      - Occupational Health and Safety



## Petroleum @ R St NW: Operational Incident Overview

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- OPERATIONAL HIGHLIGHTS
  - Office of Emergency Management
    - Incident Command System (ICS) Training
    - IMT organization and documentation
    - Command Van visioning
    - Operational liaison officers
    - Interagency Coordination
  
  - External Affairs
    - Public Notification and community out-reach
    - Quench Buggy Deployment
    - Frequently Asked Questions
    - Media support and liaison for public inquiries





## Petroleum @ R St NW: Operational Incident Overview







## Petroleum @ R St NW: Operational Incident Overview

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- **NEXT STEPS**

- **Continued Forensic Analysis**

- Perform cross connection investigations within buildings that have boilers and other large water processes within the area.
    - Work with DDOE to investigate potential underground storage tanks issues in the area

- **After Actions Review and Implementation**

- Conducted critical evaluation of the teams activities and develop actionable steps for continuous improvement [after action meeting held on January 8, 2015].
    - Establish point of contact for new resources and support areas identified during the event.



## Petroleum @ R St NW: Operational Incident Overview

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- **NEXT STEPS**

- **Continue Cross Connection Program Enhancements**

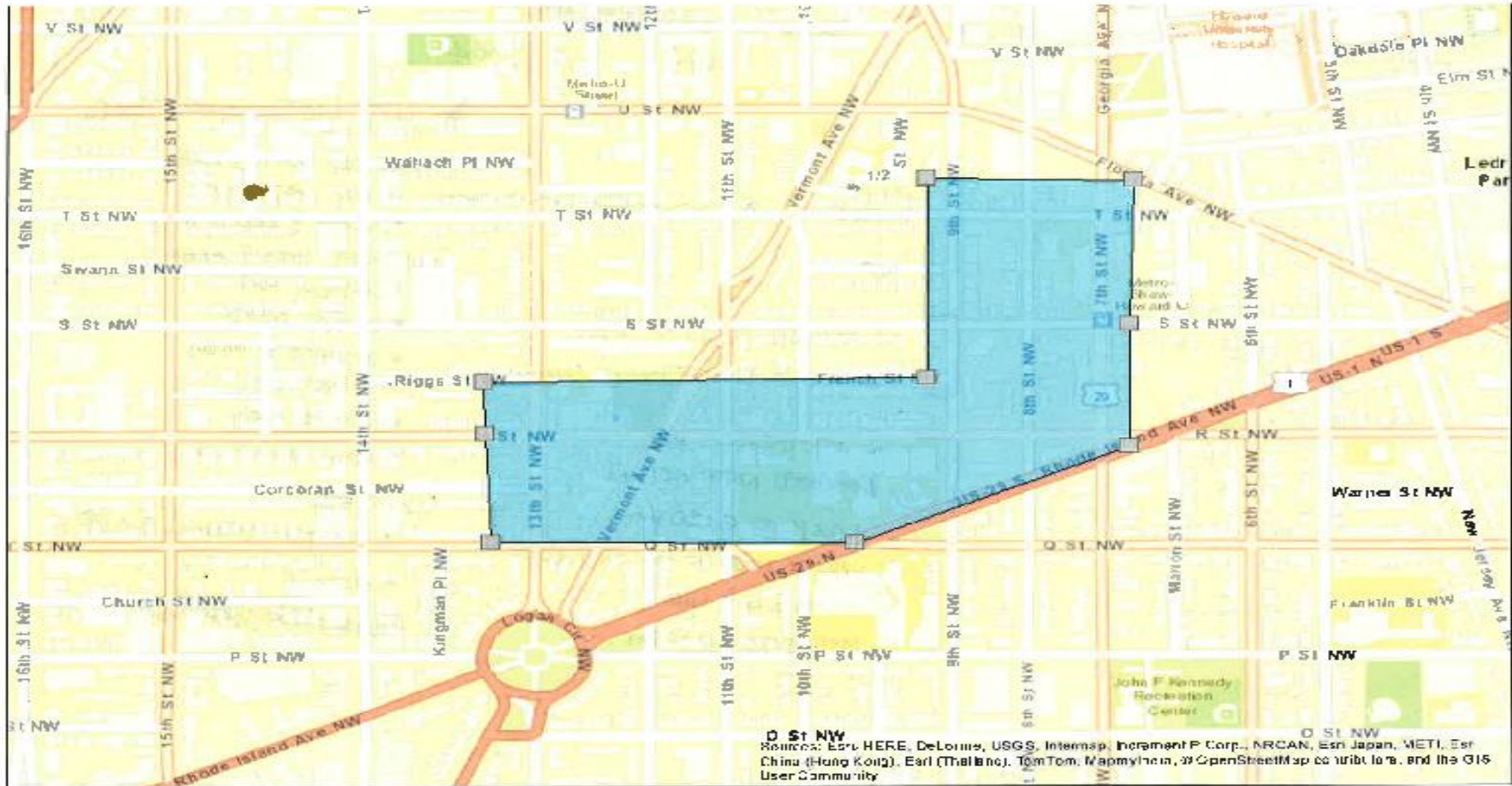
- Update and finalize regulatory language that will strengthen DC Waters process for issuance of fines for violations.
    - Increase operational resources (Compliance Specialists)
    - Refine the list of high risk customers in preparation for potential Cross Connection Program fees.

- **Continued Training**

- Expand the ICS training (100, 200, 300, 400, area specific) to other areas of our operations.
    - IMT specific position training for employees.



# Petroleum @ R St NW: Operational Incident Overview



Petroleum at R St NW

December 17, 2014





## Petroleum @ R St NW: Operational Incident Overview

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- QUESTIONS