

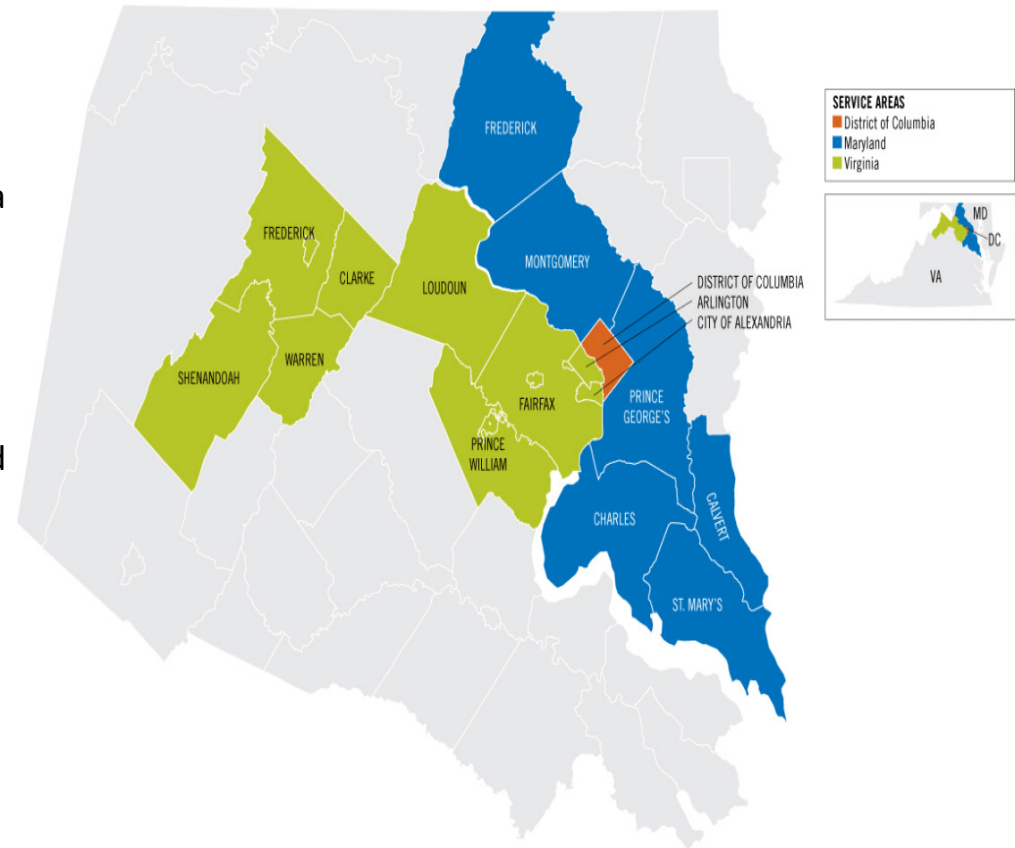
Reducing Methane Release Through Effective Damage Prevention Programs

Scott Brown

MAY, 2017

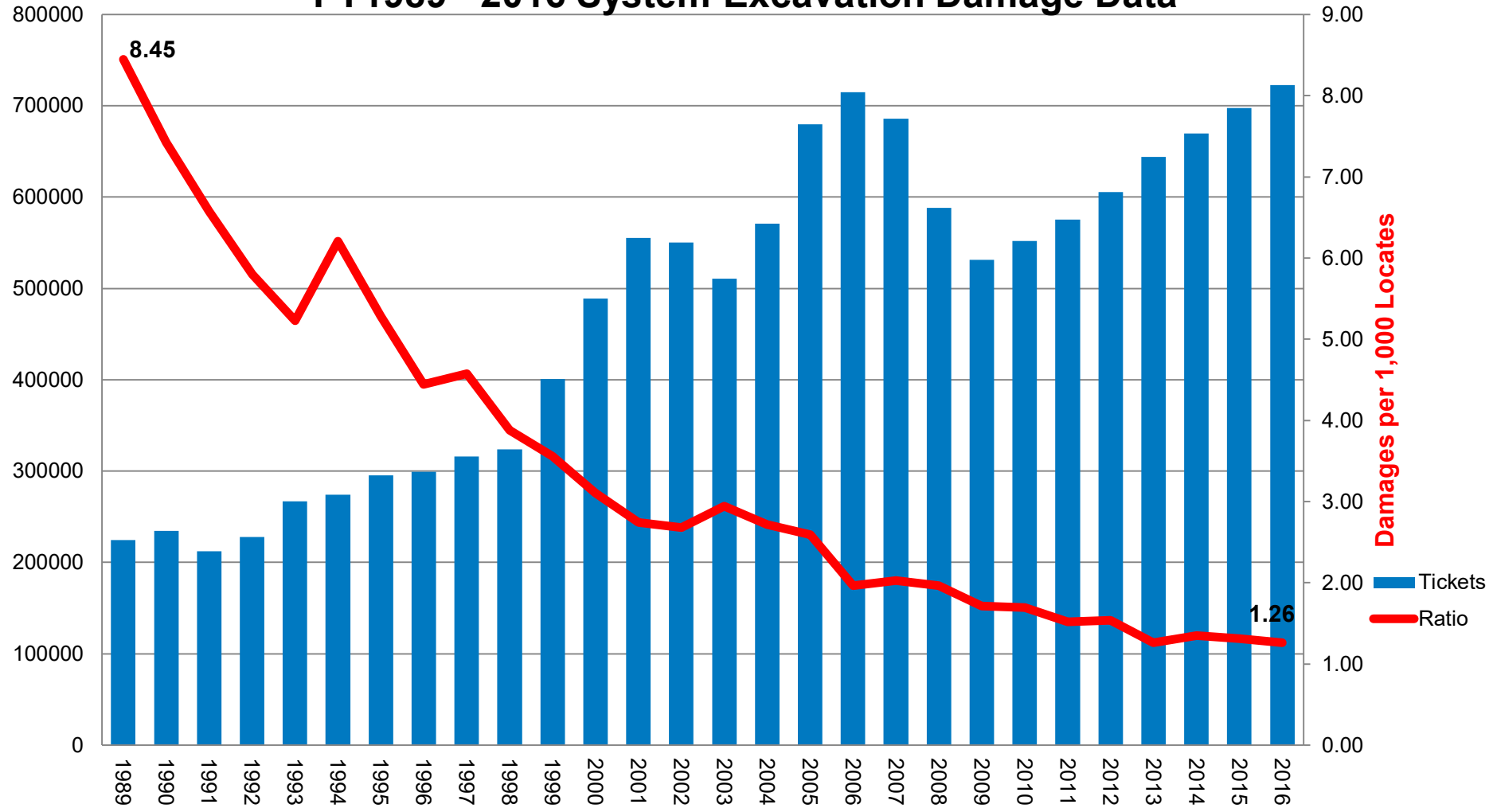
WG Overview

- Washington Gas was founded in 1848
- Franchise area covers 6,213 square miles
- Distribution system in District of Columbia
Maryland, and Virginia
- Over 1.1 million customers
- 1,000,000+ services
 - 93% residential and 7% commercial and industrial customers
- Over 14,500 miles of main
and 12,500 miles of service



We Have Come a Long Way

FY1989 - 2016 System Excavation Damage Data



How did we accomplish this?

Five Key Elements of Damage Prevention



Executive buy-in

- Weekly operations call
- Scorecard presence
- Identifying the total cost of damage to WG
- Integral component of WG safety program

Long term relationship with locator (32 years)

- Supportive of career development program, employee retention, long term investments
- Locator audits 100% of locates against WG GIS looking for inconsistencies or omissions

Field presence

- Excavator training (FYTD17: 5,931)
- CARE- A-Van Outreach stops (FYTD17:300)
- Transmission Standby field education (FYTD17: 363)

Collaborative stakeholder relationships

- Rewrote MD law and rewriting DC law to comply with PHMSA 9 Key Elements of DP program
- Collaborative development of DP programs
- WG Homeowner Ambassador Program

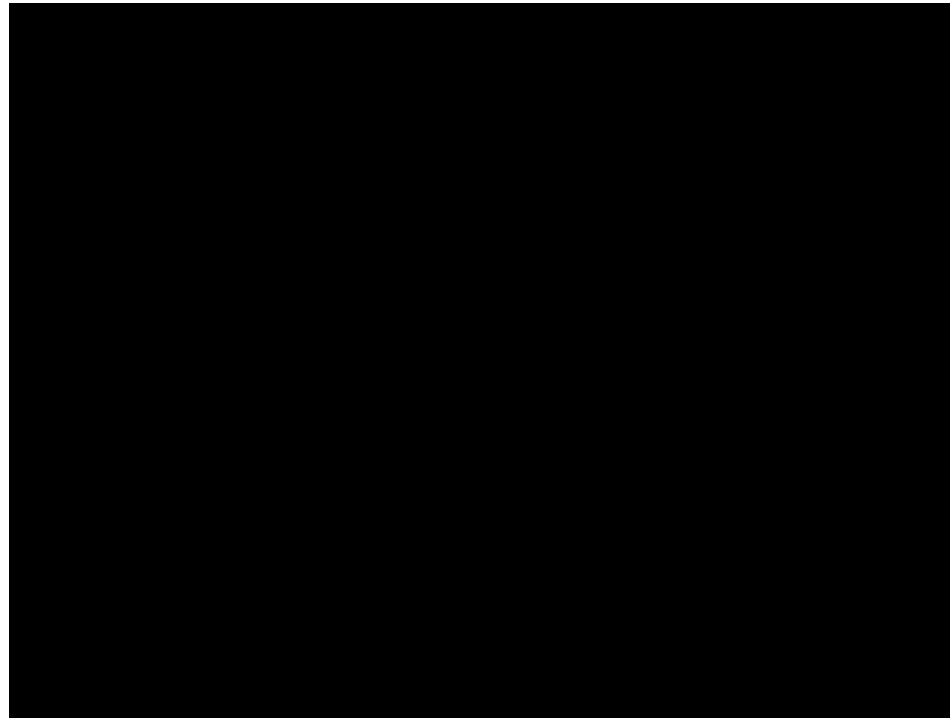
Leveraging technology

- Utilize RFID for all new installations (plastic pipe)
- GPS enabled locating documentation; layer on our GIS with ortho photography
- Development of GPS enabled paint wand

Damage Prevention PARTNERING TOGETHER WITH EXCAVATORS



- To prevent loss of life, injuries, damage to property and the environment by damage to underground utility lines.
- To protect from damage thousands of miles of underground utility lines that provide essential services to DC & MD citizens and businesses.



EPR

Enhanced Positive Response

- Damage prevention is an ongoing journey
- Requires ongoing commitment, focus and accountability
- The next step in the evolution of damage prevention is EPR
- providing enhanced communication between ALL stakeholders

EPR

Enhanced Positive Response



Washington Gas is sharing previously confidential information to help excavators safely excavate around our facilities.

The EPR is designed to reduce damages and provide a safer, more efficient work environment for us all.



Washington Gas believes this new process will soon become the industry standard.



UtiliQuest

- Damage Prevention partner since 1985
- Thurman Smith VP Operations will walk us through the EPR process

What Else is working FOR Washington gas?

PLANT AT RISK (PAR) PROGRAM

File Search **Risk Review** Analyze  Amature@washgas.com (Logout) 

 Ticket Workflow  Filters

Dashboard Details

Pre-Locate Tickets

<input type="checkbox"/>	Risk Score ↕	Excavator Score ↕	Facility Score ↕	Call In Date ↕	Ticket Number ↕	Excavator ↕	Work Type ↕	Work Status Code
<input type="checkbox"/>	83	32	100	07/22/2016	16481526	BARTLEY CORPORATION	EXCAVATION FOR NEW FOUNDATION	MD
<input type="checkbox"/>	60	54	62	07/22/2016	B620400495	LAMBERT CABLE	FIOS	VA
<input type="checkbox"/>	80	20	100	07/22/2016	16481524	INFRASOURCE INC	INST GAS SVC	DC
<input type="checkbox"/>	88	54	100	07/22/2016	B620400491	LAMBERT CABLE	FIOS	VA
<input type="checkbox"/>	75	0	100	07/22/2016	16481516	ARBON UG SPRINKLER SYSTEM	INST UG SPRINKLER/IRRIGATION SYSTEM	MD
<input type="checkbox"/>	75	0	100	07/22/2016	16481520	MD PAVING & SEALING INC	REPAIR ASPHALT ROADWAY	MD
<input type="checkbox"/>	44	0	59	07/22/2016	B620400489	FLORES CABLE	COMMUNICATIONS CABLE - REPAIR OR REPLACE	VA
<input type="checkbox"/>	83	32	100	07/22/2016	16481513	BARTLEY CORPORATION	EXCAVATION FOR SITE CONCRETE WORK	MD
<input type="checkbox"/>	59	54	61	07/22/2016	B620400488	LAMBERT CABLE	FIOS	VA

Yesterday | Today

« Previous Next »

Showing 1-30 of 577


PLANT AT RISK

File

Search

Risk Review

Analyze



Amiatune@washgas.com (Logout)

Ticket Workflow

Dashboard

Add Actions

Actions

Risk Score

83.00

Excavator Score: 32.00
Facility Score: 100.00

Last scored: 07/22/2016 @ 10:17 am EDT

Ticket #

16481526

Excavator

BARTLEY CORPORATION

Work Type

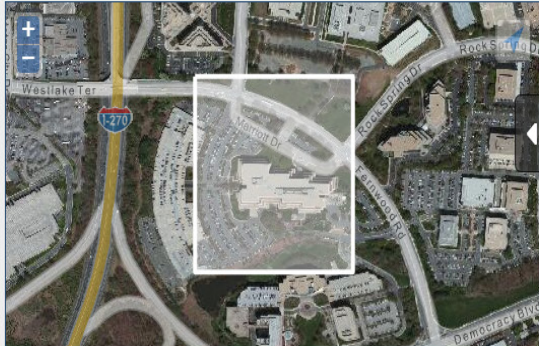
EXCAVATION FOR NEW FOUNDATION

Status

New

Scope

LOCATE/MARK:FROM THE CENTER OF THE ROAD TO THE BACK OF THE PROPERTY, WHAT IS AN ALLEY, BUILDING 15 IS LOCATED OVER EAMES WAY AND ALL LOTS THAT NEED TO BE MARKED ARE #112-119 LOCATION CAN BE FOUND IN FOLLOWING LINK: [HTTP://WWW.EYA.COM/MONTGOMERY-ROW/WP-CONTENT/UPLOADS/2015/01/MR-SITE-PLAN-052.815.PDF](http://www.eya.com/MONTGOMERY-ROW/WP-CONTENT/UPLOADS/2015/01/MR-SITE-PLAN-052.815.PDF) CLICK HERE TO SEE THE TICKET MAPPING FOR PEPOMC: [HTTP://MD.ITIC.OCCINC.COM/T922-2YT-7G2-CU9](http://md.itic.occinc.com/T922-2YT-7G2-CU9) CLICK HERE TO SEE THE TICKET MAPPING FOR TRU02: [HTTP://MD.ITIC.OCCINC.COM/G952-2Y9-7G2-CA9](http://md.itic.occinc.com/G952-2Y9-7G2-CA9) CLICK HERE TO SEE THE TICKET MAPPING FOR WGL06: [HTTP://MD.ITIC.OCCINC.COM/C912-2YL-7G2-CN9](http://md.itic.occinc.com/C912-2YL-7G2-CN9)



Work Date

07/26/2016

Performed For

EYA

Area damages YTD

n/a

Work type damages YTD

n/a

Notification Polygon Available

Yes

Excavator Damage Count

2

Excavator Ticket Count

917

Work Address

EAMES WAY

City, State

BETHESDA, MD

County

MONTGOMERY

Cross Street

EAMES WAY

Facilities in Scope

Facility	Size	Pressure	Material	Year Installed	Location
Gas	1.5	TRMNP	Wrapped_Steel	1980	39.02497781, -77.13688004
Gas	4	ABAND	Wrapped_Steel	1970	39.02627830, -77.13778776
Gas	.75	HP	Plastic	2015	39.02608327, -77.13681645

Showing 1-17 of 17

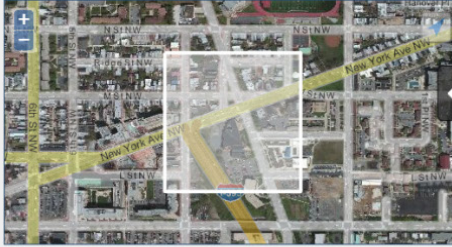
PLANT AT RISK

Risk Scores

Locator Exp. Score: 50.00
Locator Damage Score: 50.00
Sketch Score: 0.00

Pre-Locate: 79.00 / Post-Locate: 25.00

Last scored: 07/22/2016 @ 10:11 am EDT



Work Date 07/22/2016

Performed For WASHINGTON GAS

Area damages YTD n/a

Work type damages YTD n/a

Notification Polygon Available Yes

Excavator Damage Count 1

Excavator Ticket Count 3456

Locator Damage Count 2

Locator Months Experience 73

Work Address 415 L ST NW

City, State NW, DC

County NW

Cross Street 4TH ST NW

Ticket # 16474693

Excavator WASHINGTON GAS

Work Type SCHEDULED GAS CHECKS AND MAINTENANCE

Status Locate Complete

Scope LOCATE/MARK: ALL UTILITIES ON PROPERTY TO STREET, CURB TO CURB. CLICK HERE TO SEE THE TICKET MAPPING FOR WGL07: <http://md.itc.occinc.com/TCN8-L2R-2K9-27U>

Utilities Not Sketched

Facility	Size	Pressure	Material	Year Installed	Location
No results were found					

Showing 0-0 of 0

Facilities In Scope

Facility	Size	Pressure	Material	Year Installed	Location
Gas	4	LP	Wrapped_Steel	1959	38.90510089, -77.01628409
Gas	2	ABAND	HTL	1800	38.90535220, -77.01476413
Gas	2	HP	Plastic	2006	38.90400424, -77.01444212
Gas	.75	LP	Plastic	2006	38.90573328, -77.01666347
Gas	3	ABAND	HTL	1930	38.90373612, -77.01674498
Gas	1.25	LP	Plastic	1981	38.90526446, -77.01631346
Gas	1.25	LP	Wrapped_Steel	1951	38.90604584, -77.01477800

Showing 1-63 of 63

Virtual Manifest™



Shapes: ■ Gas (Yellow) ■ Excavation Scope (White)

Symbols: ● Ticket # 16474693

Completed By: 38710

Completed On: 07/22/2016 10:05 AM

Planned By: 38.90535220, -77.01444212

Materials: Paint

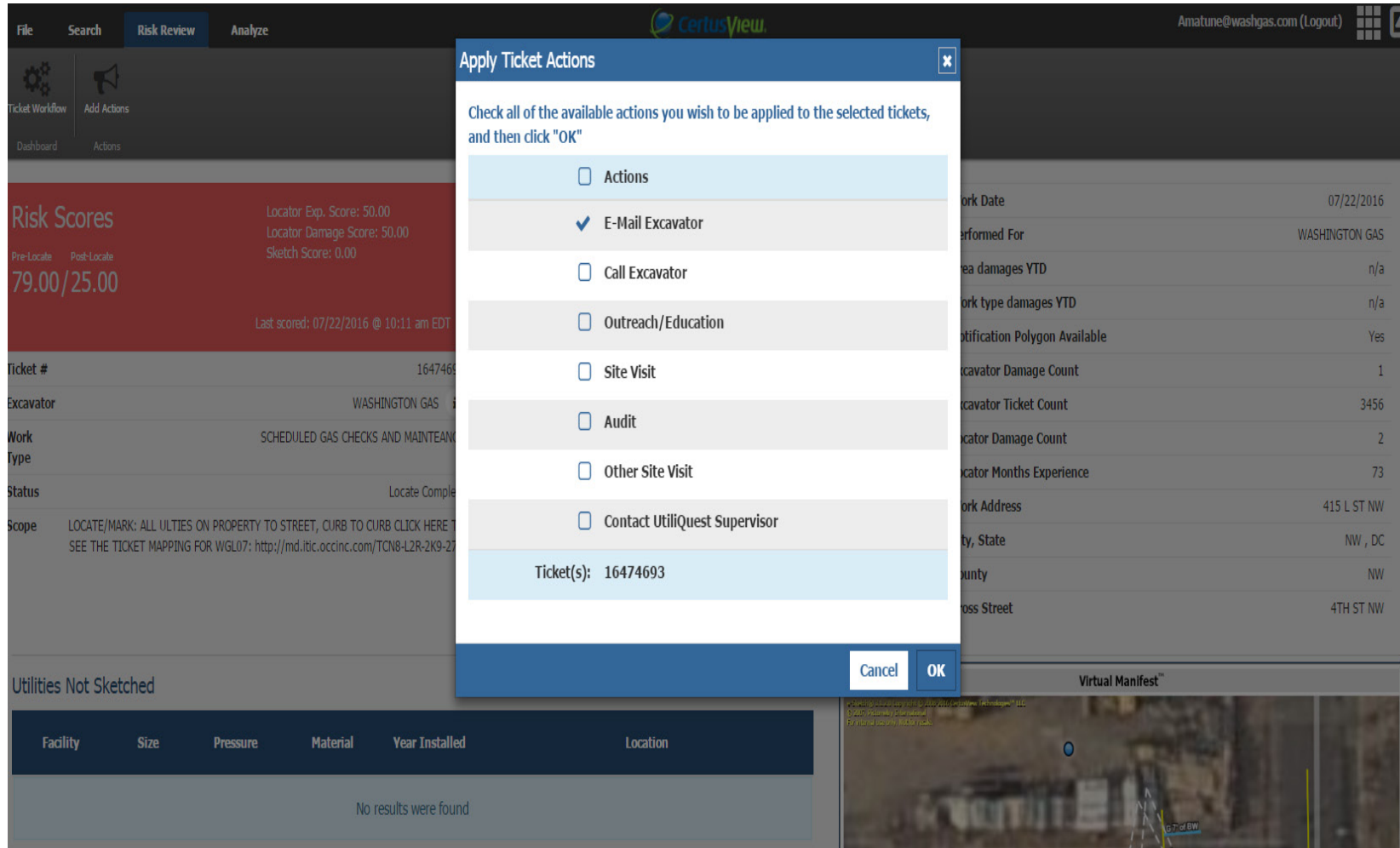
Actions: Conditions:

Signature: 

Device GPS Available
Lat/Long was available on Ticket
Image GPS was within allowed distance to GPS device

Enlarge

PLANT AT RISK



The screenshot displays the CertusView Risk Review interface. A modal window titled "Apply Ticket Actions" is open, prompting the user to check actions to apply to selected tickets. The background shows a "Risk Scores" section with a score of 79.00/25.00 and a table of ticket details for ticket 16474693.

Apply Ticket Actions

Check all of the available actions you wish to be applied to the selected tickets, and then click "OK"

- ☐ Actions
- ☒ E-Mail Excavator
- ☐ Call Excavator
- ☐ Outreach/Education
- ☐ Site Visit
- ☐ Audit
- ☐ Other Site Visit
- ☐ Contact UtiliQuest Supervisor

Ticket(s): 16474693

Cancel OK

Risk Scores

Locator Exp. Score: 50.00
Locator Damage Score: 50.00
Sketch Score: 0.00

Pre-Locate: 79.00/25.00
Post-Locate: 79.00/25.00

Last scored: 07/22/2016 @ 10:11 am EDT

Ticket #	Excavator	Work Type	Status	Scope
16474693	WASHINGTON GAS	SCHEDULED GAS CHECKS AND MAINTENANCE	Locate Complete	LOCATE/MARK: ALL UTILITIES ON PROPERTY TO STREET, CURB TO CURB CLICK HERE TO SEE THE TICKET MAPPING FOR WGL07: http://md.itic.occinc.com/TCN8-L2R-2K9-27

Utilities Not Sketched

Facility	Size	Pressure	Material	Year Installed	Location
No results were found					

Virtual Manifest™

PLANT AT RISK

PAR (Plant At Risk) [16431633] Excavator Email Alert

FieldAware@certusview.com

Sent: Thu 7/7/2016 12:27 PM

To:

Dear Excavator,

This ticket has been identified as high risk of gas damage.
Prior to excavation please contact Amanda Matune at 703-750-4588 for details
or information about this ticket.

What Else is working FOR Washington gas?

Homeowner Ambassador Program



What Else is working FOR Washington Gas?

811 Community & Contractor Outreach



What Else is working FOR Washington Gas?

PipeTown is an emergency response training facility. We have utilized this facility to train both excavators and locators on the properties of natural gas. It is very effective as you will see.



What Else is working FOR Washington Gas?

CARE-A-Van



Concluding Thoughts

85% Reduction in damages since 1989 due to DP Programs = 85% reduction in methane gas loss from third party damages.

Success has been attributed to:

- Executive buy-in
- Long term relationship with contract locator,
- Leveraging technology
- Field presence
- Collaborative relationships with excavators and stakeholders

Thank you!



Know what's below.
Call before you dig.