

Bennington IDDE  
 Outfall Code: BTN-11  
 Infrastructure Code: CB-1081

Results:  
 9-2-15  
 pH: Not Tested  
 Conductivity (uS/cm): Not Tested  
 Temperature (C): Not Tested  
 Ammonia (mg/L): 2.77  
 E. coli (MPN/100ml): 199  
 Detergents (MBAS, ppm): 0.75  
 Chlorine (mg/L): Not Tested  
 Potassium (ppm): Not Tested  
 ECS Alert: 2x (both canines)

Pooled water in CB sump. Sampled from sump for lab analysis. Found high detergent and bacteria 9-3-15.  
 Televised pipes 9-22-15. No suspect connections found.  
 Do not suspect chronic illicit discharge.

#### Bennington Outfalls

##### Overall Characterization

- + Possible
- + Suspect

##### Stormwater Infrastructure

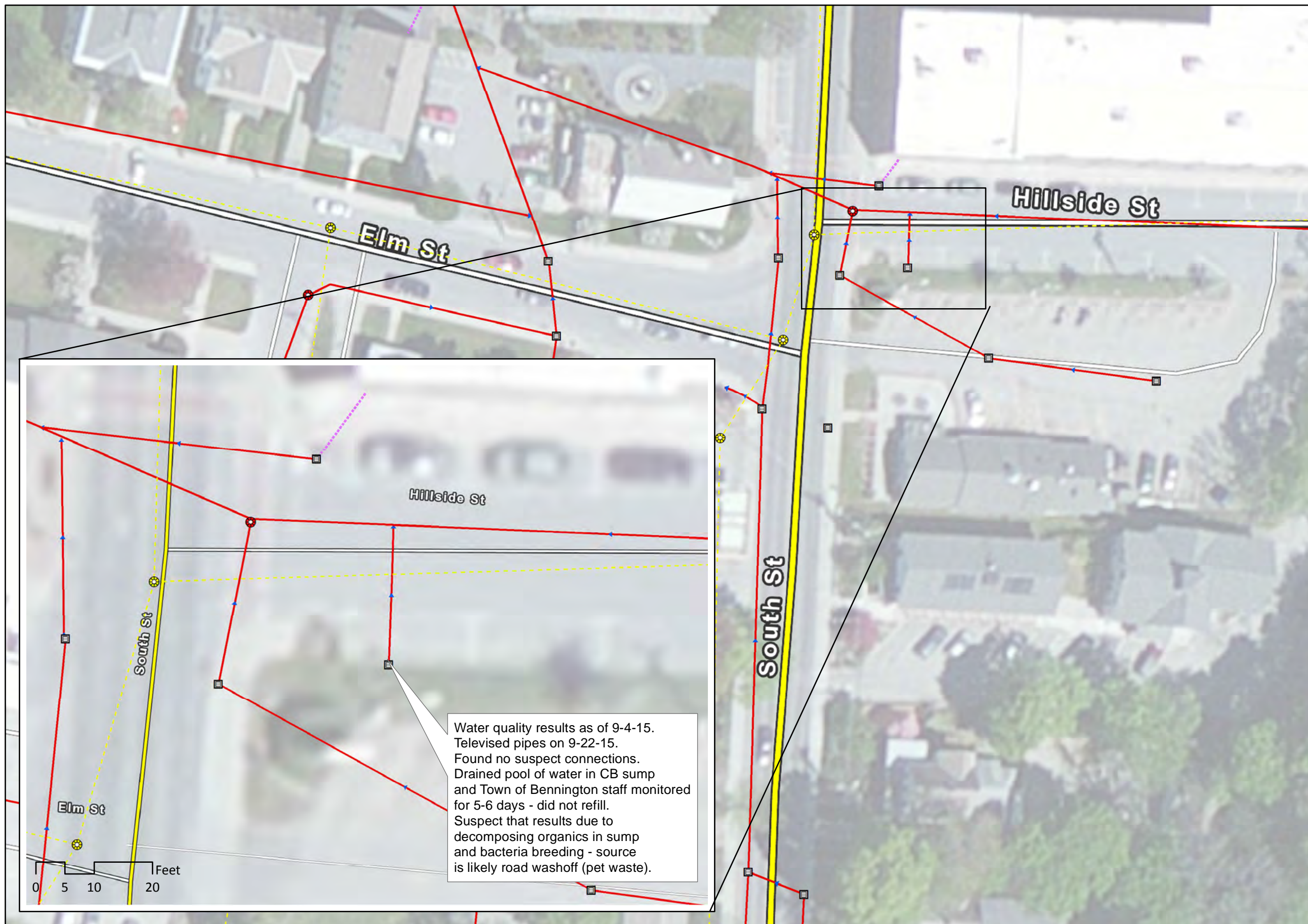
- Catchbasin
- Dry Well
- Junction Box
- ⊗ Stormwater Manhole
- ⊗ Sanitary Manhole
- ⊗ Outfall
- ⊗ Culvert inlet
- ⊗ Culvert outlet
- ⊗ Pond outlet structure
- Ⓡ Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow
- BMP Areas

Data: Imagery - Esri. Basemap - VCGI.  
 Stormwater Infrastructure - VT DEC



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Bennington IDDE  
 Outfall Code: BTN-11  
 Infrastructure Code: CB-1384

Results:  
 9-2-15  
 pH: Not Tested  
 Conductivity (uS/cm): 280  
 Temperature (C): Not Tested  
 Ammonia (mg/L): 1.56  
 E. coli (MPN/100ml): >2400  
 Detergents (MBAS, ppm): 0.75  
 Chlorine (mg/L): Not Tested  
 Potassium (ppm): Not Tested  
 ECS Alert: 1x (one canine)

Pooled water in CB sump on 9-4-15.  
 Sampled for lab (results above).  
 Televised pipes and drained sump on 9-22-15. Found no suspect connections.  
 Sump remained dry over next 5-6 days (observed by Town of Bennington).  
 Suspect that bacteria result due to breeding in anaerobic and temperature conditions in sump.  
 Ammonia reading likely due to decomposing organics.  
 Detergents possibly road washoff.

### Bennington Outfalls

#### Overall Characterization

- + Possible
- + Suspect

#### Stormwater Infrastructure

- Catchbasin
- Dry Well
- Junction Box
- + Stormwater Manhole
- + Sanitary Manhole
- + Outfall
- + Culvert inlet
- + Culvert outlet
- + Pond outlet structure
- R Retrofit
- > Storm line
- > Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- > Overland flow
- BMP Areas

Water quality results as of 9-4-15.  
 Televised pipes on 9-22-15.  
 Found no suspect connections.  
 Drained pool of water in CB sump  
 and Town of Bennington staff monitored  
 for 5-6 days - did not refill.  
 Suspect that results due to  
 decomposing organics in sump  
 and bacteria breeding - source  
 is likely road washoff (pet waste).

Data: Imagery - Esri. Basemap - VCGI.  
 Stormwater Infrastructure - VT DEC



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Results obtained are from this stormwater manhole. Water was not flowing but was pooled.

Bennington IDDE  
Outfall Code: BTN-11  
Infrastructure Code: SMH-1386

Results:  
9-2-15

pH: Not Tested  
Conductivity (uS/cm): 435  
Temperature (C): Not Tested  
Ammonia (mg/L): N/A  
E. coli (MPN/100ml): 5  
Detergents (MBAS, ppm): 0.25  
Chlorine (mg/L): Not Tested  
Potassium (ppm): Not Tested  
ECS Alert: 2x (both canines)

Opened stormwater manhole - found pool of water during dry weather. 1 canine alert - suspect canine was alerting on residual smell from SMH-1450 (higher up in same line). Bacteria low - detergents low - do not suspect chronic illicit discharge.

Televised these lines on 9-22-15. Found no suspect connections. Sanitary lines (capped here) are in good condition - not leaking.

#### Bennington Outfalls

##### Overall Characterization

- + Possible
- + Suspect

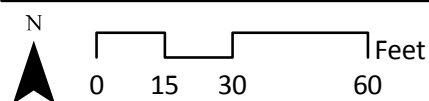
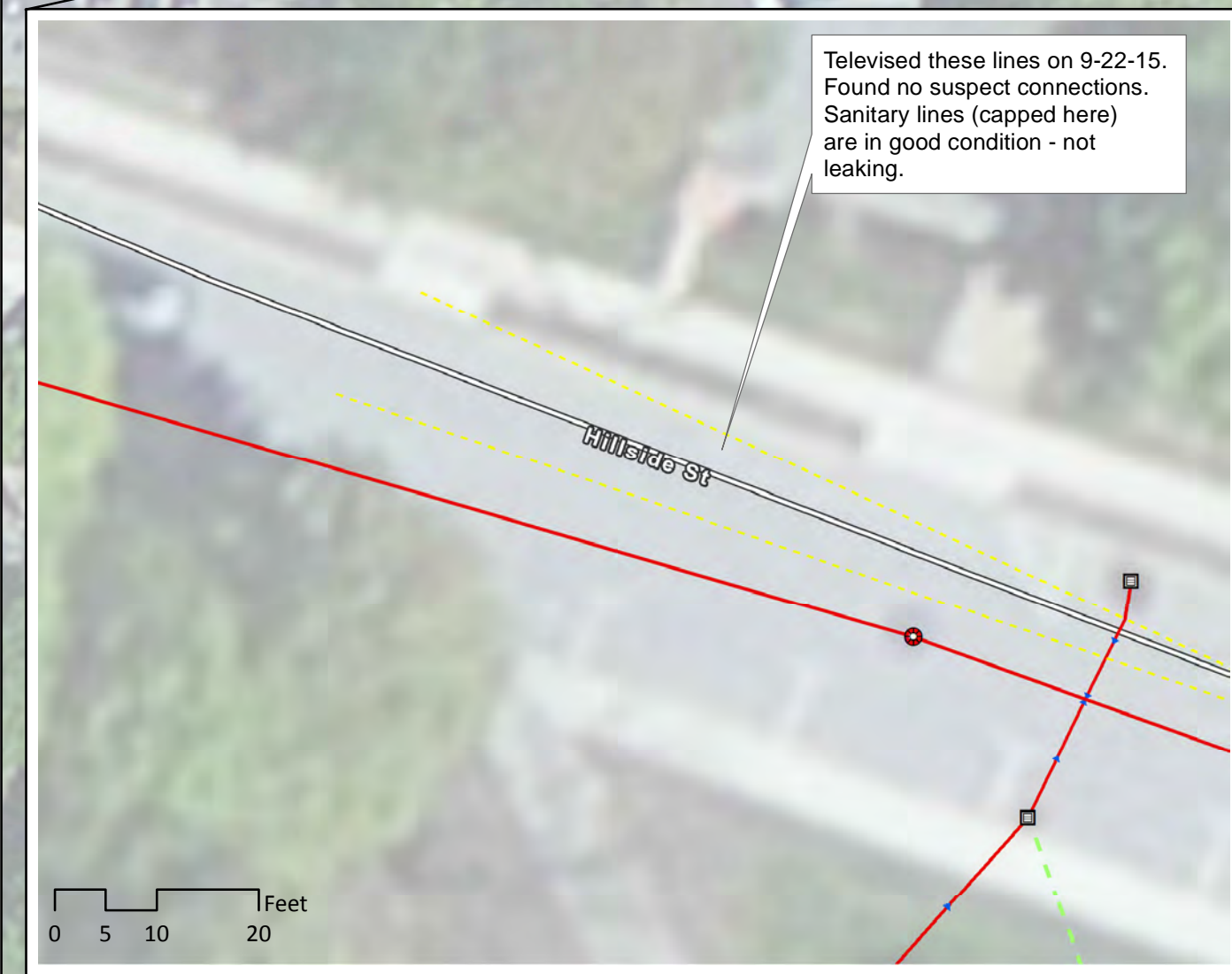
##### Stormwater Infrastructure

- Catchbasin
- Dry Well
- Junction Box
- + Stormwater Manhole
- + Sanitary Manhole
- Outfall
- Culvert inlet
- Culvert outlet
- Pond outlet structure
- Ⓡ Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow
- BMP Areas

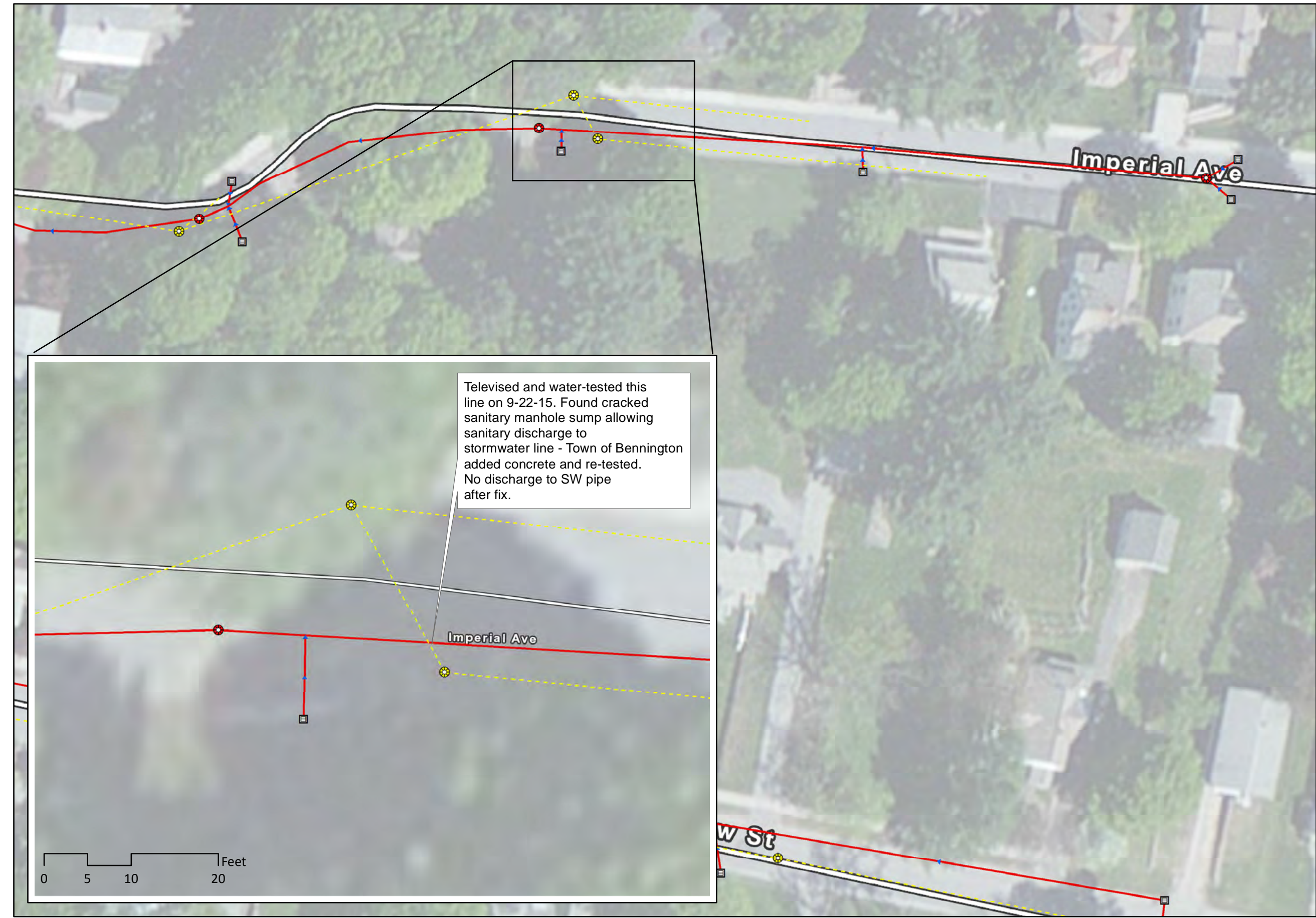
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Bennington IDDE  
Outfall Code: BTN-11  
Infrastructure Code: SMH-1450

Results:  
9-2-15  
pH: Not Tested  
Conductivity (uS/cm): 615  
Temperature (C): Not Tested  
Ammonia (mg/L): >5 (without dilution)  
E. coli (MPN/100ml): >2400  
Detergents (MBAS, ppm): 2.0  
Chlorine (mg/L): Not Tested  
Potassium (ppm): Not Tested  
ECS Alert: 2x (both canines)

Televised pipe on 9-22-15. Found cracks in sanitary manhole sump. Town of Bennington added concrete to sump and re-tested. Found no discharges after fix. Issue considered resolved.

**Bennington Outfalls**

**Overall Characterization**

- ⊕ Possible
- ⊕ Suspect

**Stormwater Infrastructure**

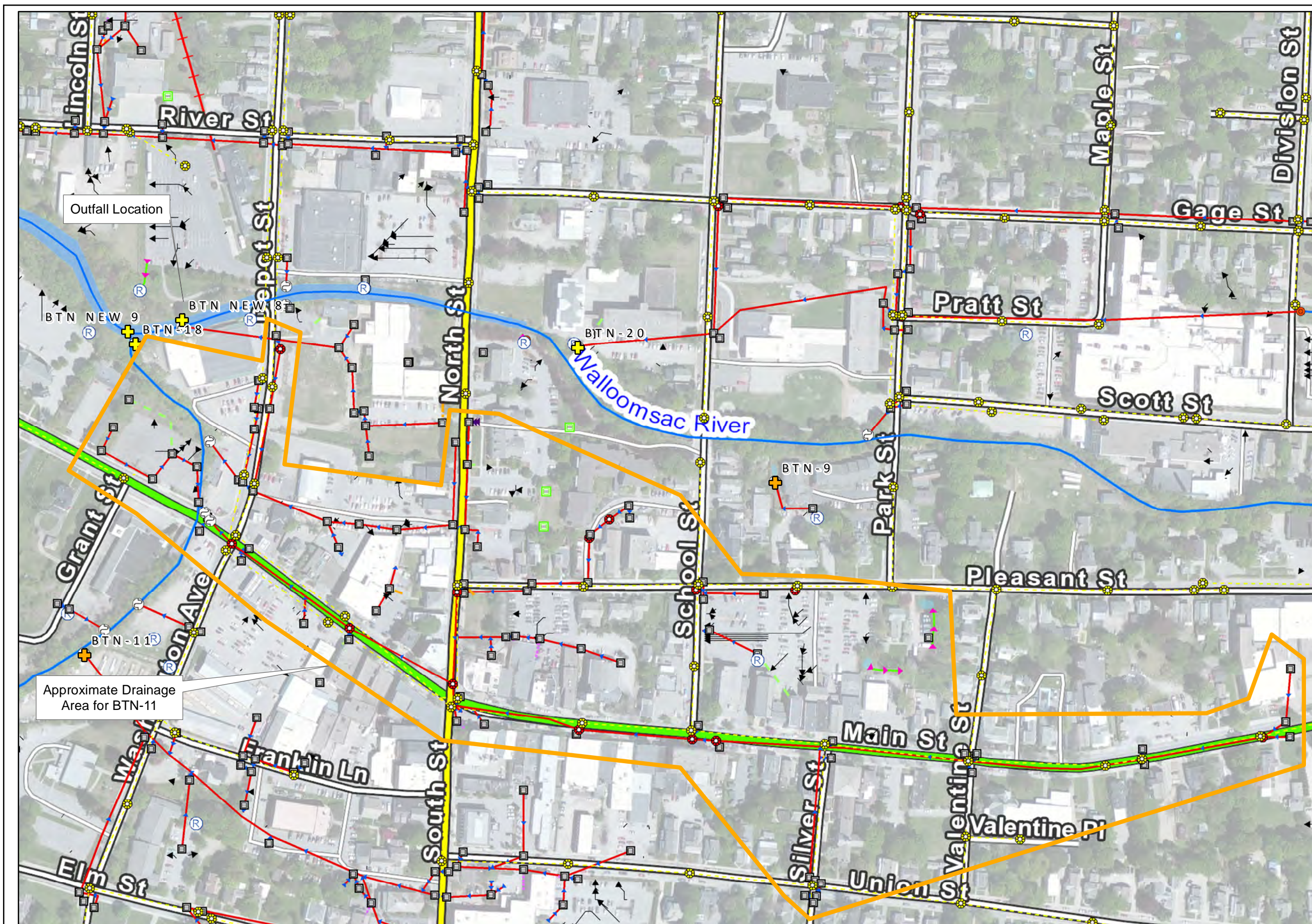
- ☐ Catchbasin
- ☐ Dry Well
- ☐ Junction Box
- ⊕ Stormwater Manhole
- ⊕ Sanitary Manhole
- ⊕ Outfall
- ⊕ Culvert inlet
- ⊕ Culvert outlet
- ⊕ Pond outlet structure
- ⊕ Retrofit
- Storm line
- Storm line (old Sanitary line)
- - - Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow
- BMP Areas

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Stormwater Infrastructure - VT DEC



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Bennington IDDE  
Outfall Code: BTN-18

Overall Map

#### Bennington Outfalls

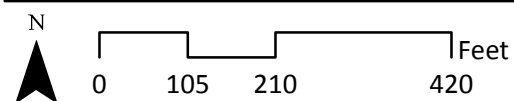
##### Overall Characterization

- ✚ Possible
- ✚ Suspect

##### Stormwater Infrastructure

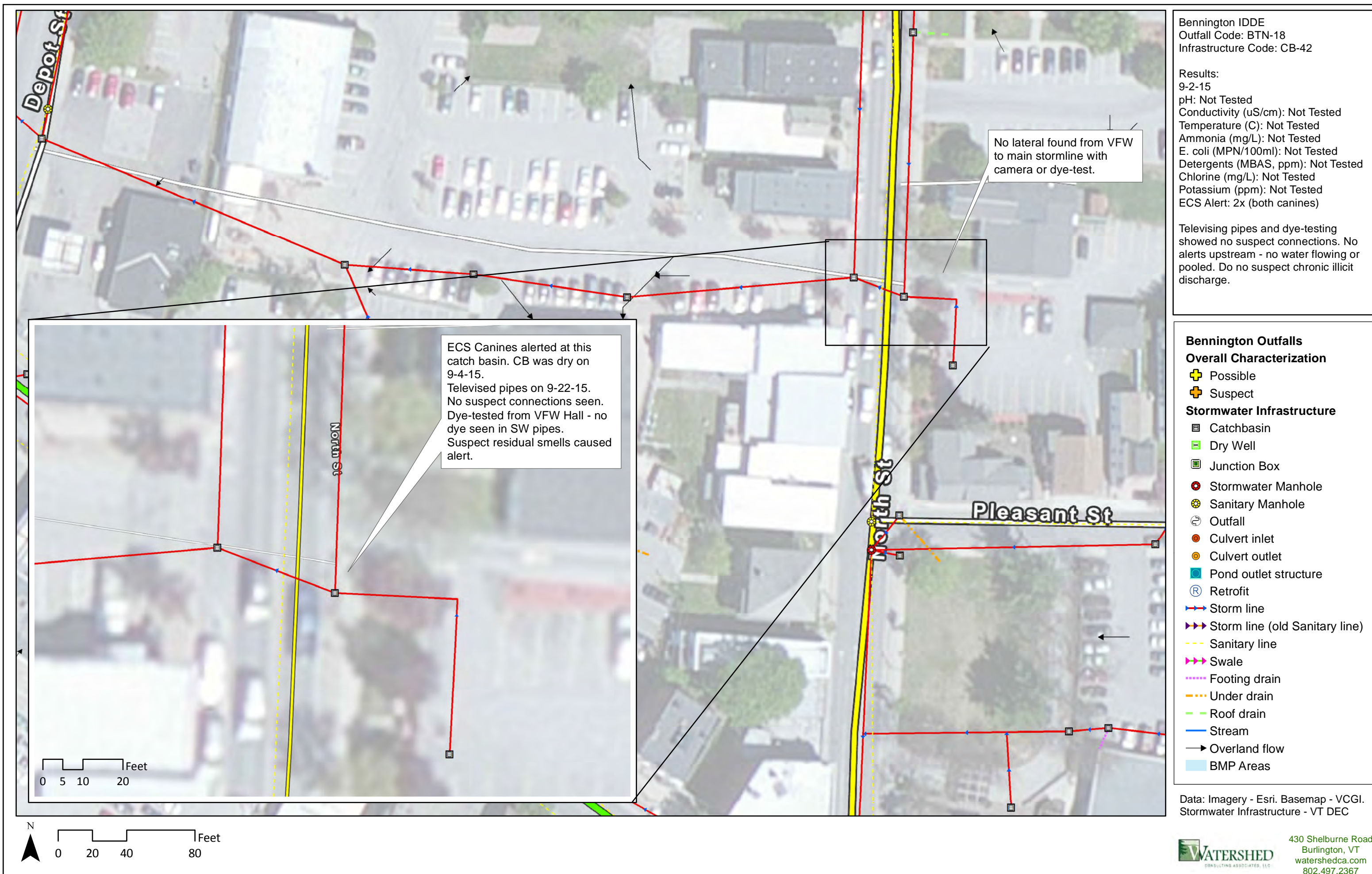
- ☐ Catchbasin
- ☐ Dry Well
- ☐ Junction Box
- ⊕ Stormwater Manhole
- ⊙ Sanitary Manhole
- ⊙ Outfall
- ⊙ Culvert inlet
- ⊙ Culvert outlet
- ☐ Pond outlet structure
- Ⓡ Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- ↗ Swale
- ⋯ Footing drain
- ⋯ Under drain
- Roof drain
- Stream
- Overland flow
- BMP Areas

Data: Imagery - Esri. Basemap - VCGI.  
Stormwater Infrastructure - VT DEC

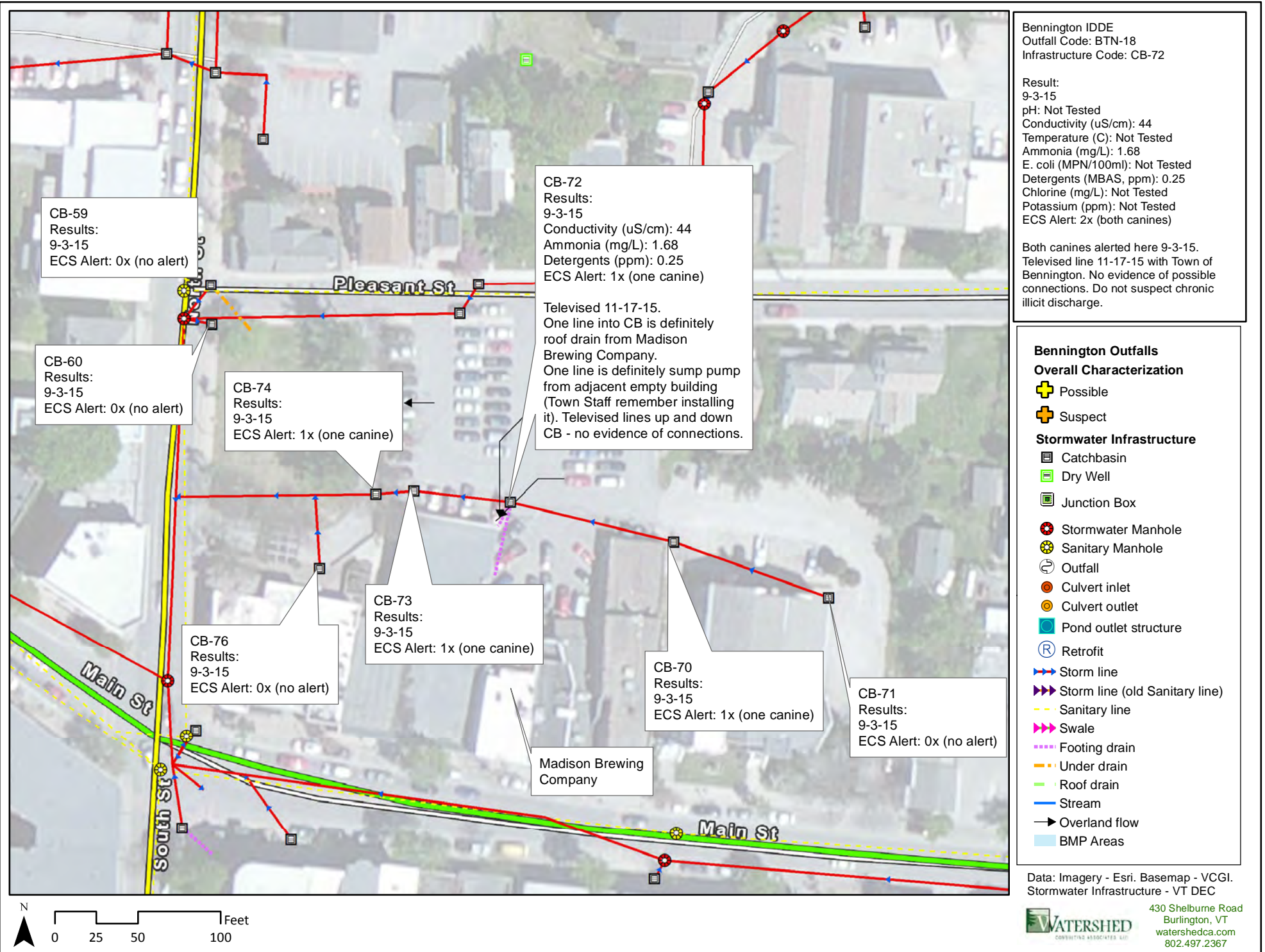


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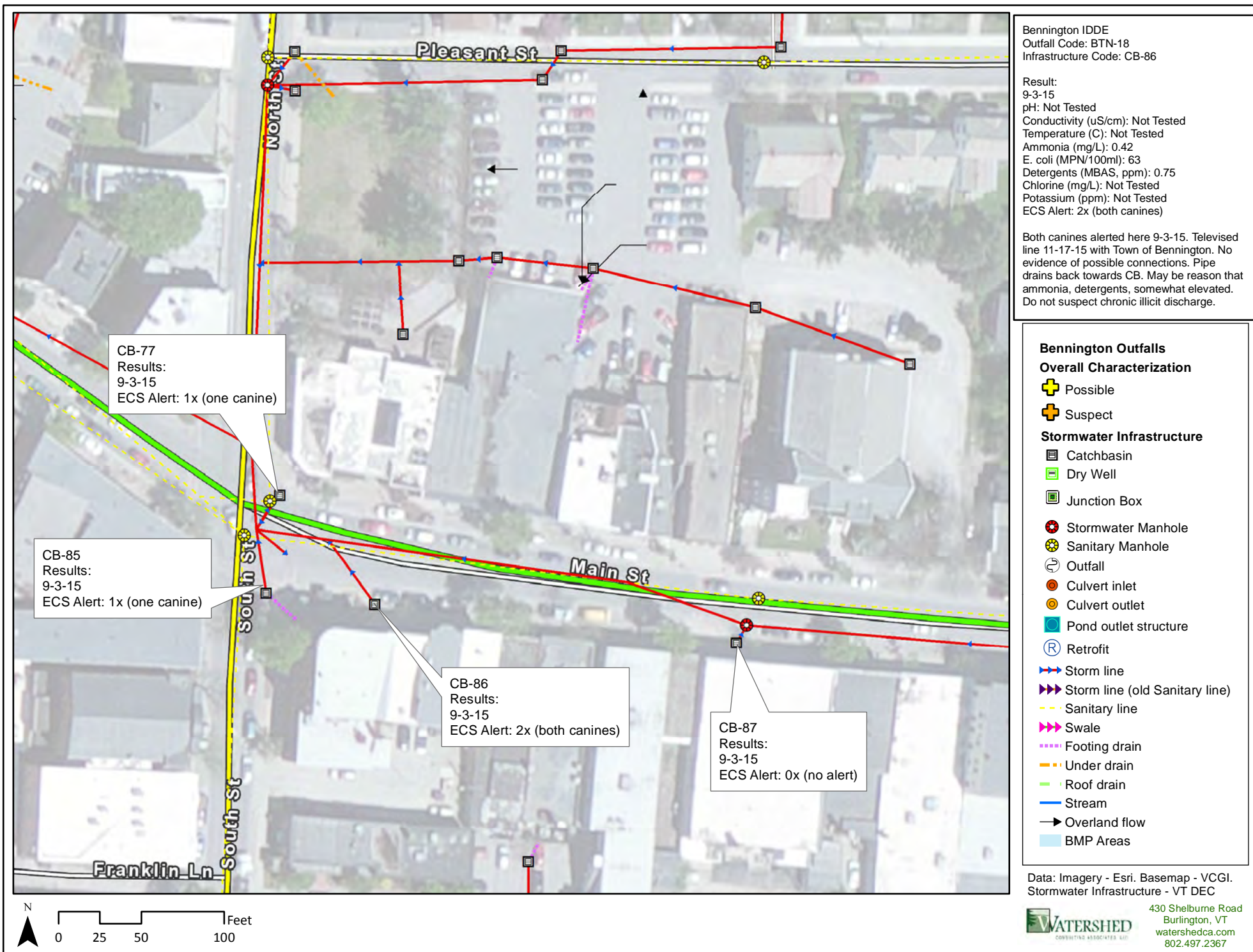




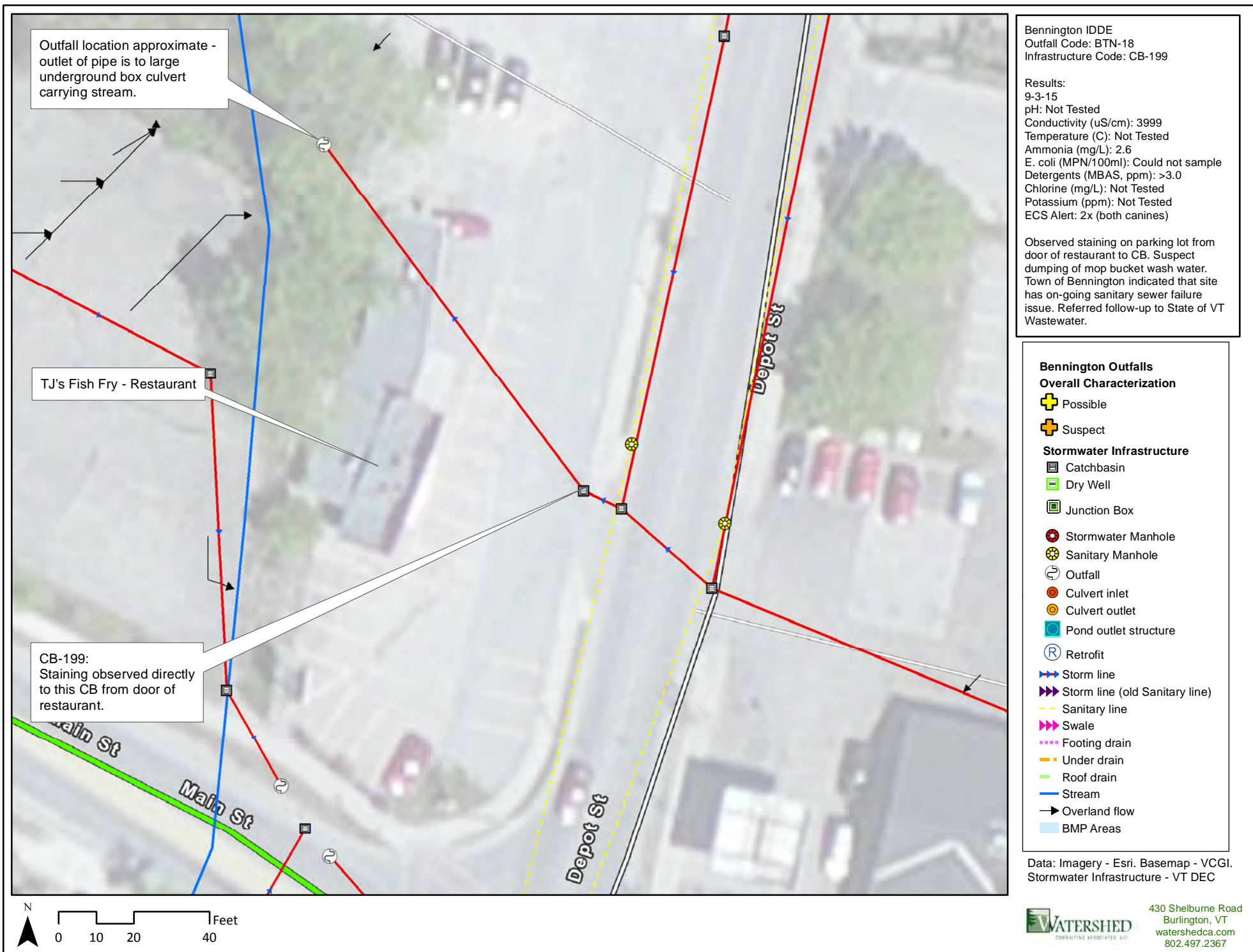




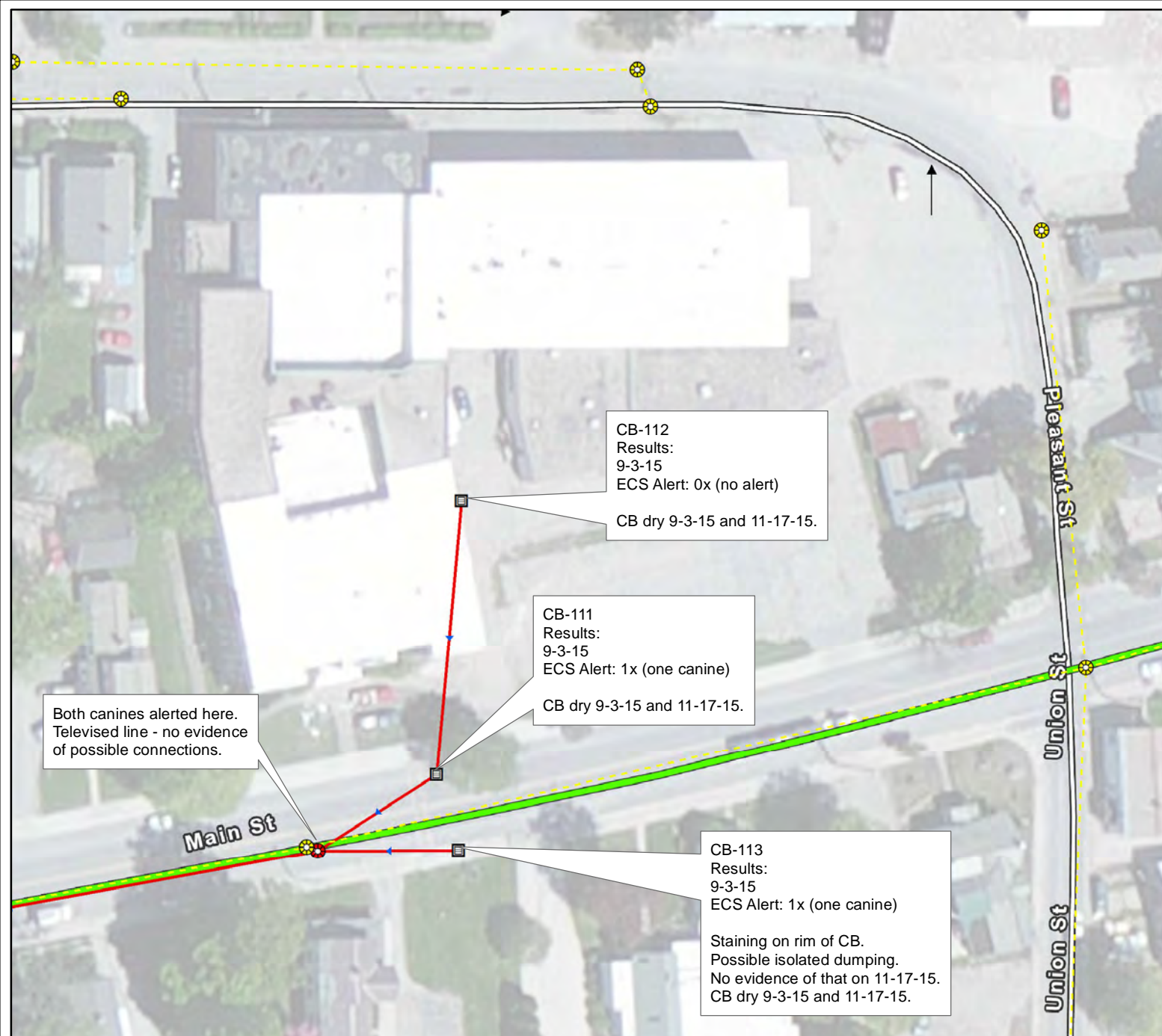












Bennington IDDE  
Outfall Code: BTN-18  
Infrastructure Code: SMH-114

Results:  
Dry - no water tests conducted.

9-3-15:  
Followed entire line up Main St. Both canines alerted at this manhole.

11-17-15:  
Conducted camera investigation with Town of Bennington. Found no possible connections.

### Bennington Outfalls Overall Characterization

- Possible
- Suspect

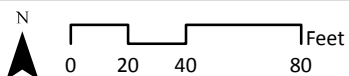
### Stormwater Infrastructure

- Catchbasin
- Dry Well
- Junction Box
- Stormwater Manhole
- Sanitary Manhole
- Outfall
- Culvert inlet
- Culvert outlet
- Pond outlet structure
- Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow
- BMP Areas

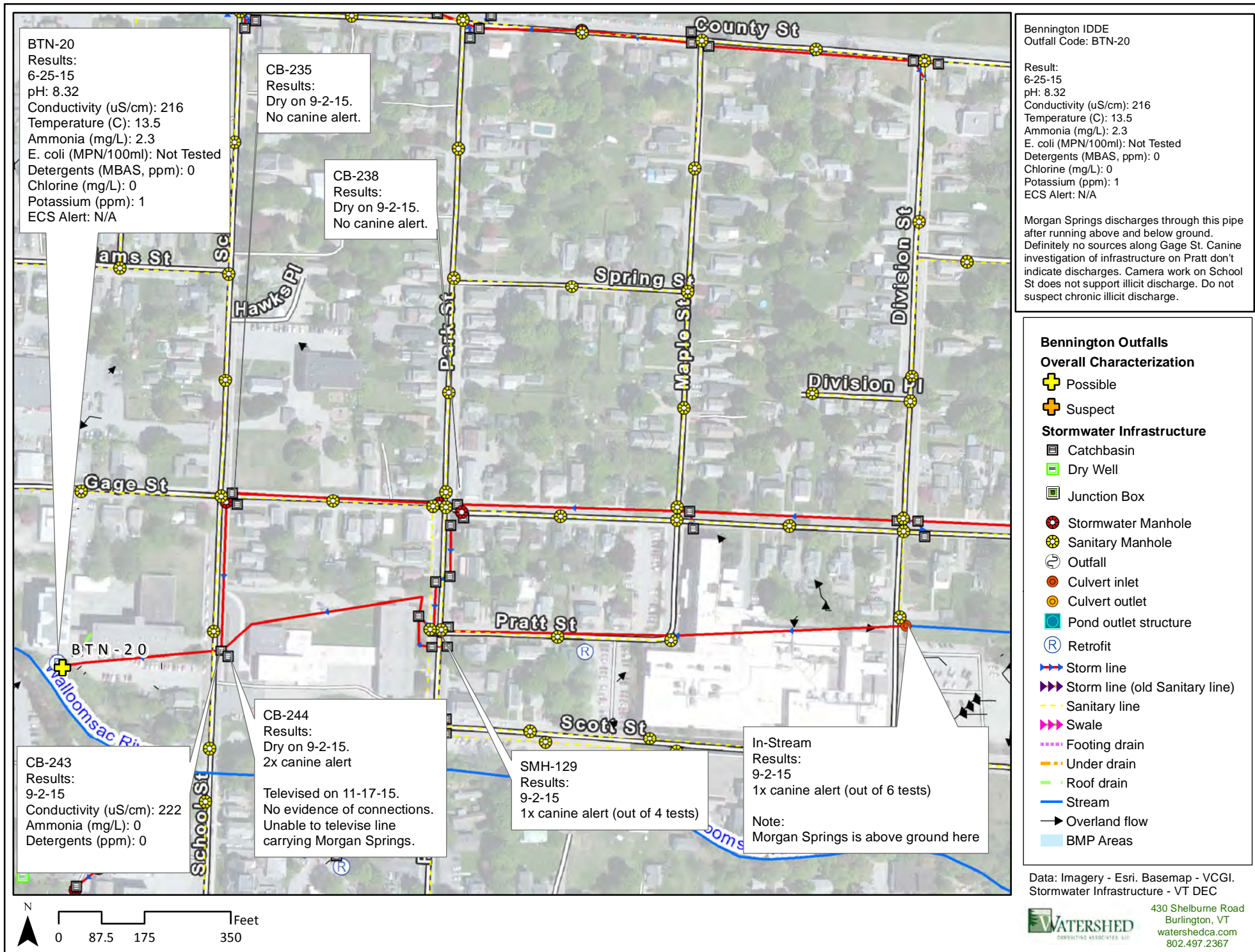
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Stormwater Infrastructure - VT DEC



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**BTN NEW 202:**

Results:  
 7-2-15  
 pH: 7.1  
 Conductivity (uS/cm): 1820  
 Temperature (C): 17.8  
 Ammonia (mg/L): 0.25  
 E. coli (MPN/100ml): N/A  
 Detergents (MBAS, ppm): 0.25  
 Chlorine (mg/L): 0.1  
 Potassium (ppm): 5  
 ECS Alert: 1x (one canine)  
 OB Test: Negative

Initial visit on 7-2-15. 0.39" rain in past 24 hours. On return visit on 9-1-15 - no flow. Placed OB pad on 9-4-15 - no florescence. Reddish stains and sheen likely iron-philic bacteria - sheen breaks into chunks. Suspect this is underdrain pipe outlet from Rescue Squad parking lot.

**Bennington IDDE**  
Outfall Code: BTN-33

Results:  
 7-2-15  
 pH: 7.45  
 Conductivity (uS/cm): 1560  
 Temperature (C): 17.2  
 Ammonia (mg/L): 0.25  
 E. coli (MPN/100ml): Not Tested  
 Detergents (MBAS, ppm): 0.25  
 Chlorine (mg/L): 0.1  
 Potassium (ppm): 2  
 ECS Alert: 1x (one canine)

Initial visit on 7-2-15. 0.39" rain in past 24 hours. On return visit on 9-1-15 - no flow. Reddish stains and sheen near pipe due to outflow from BTN NEW 202. Don't suspect chronic illicit discharge.

**Bennington Outfalls****Overall Characterization**

- + Possible
- + Suspect

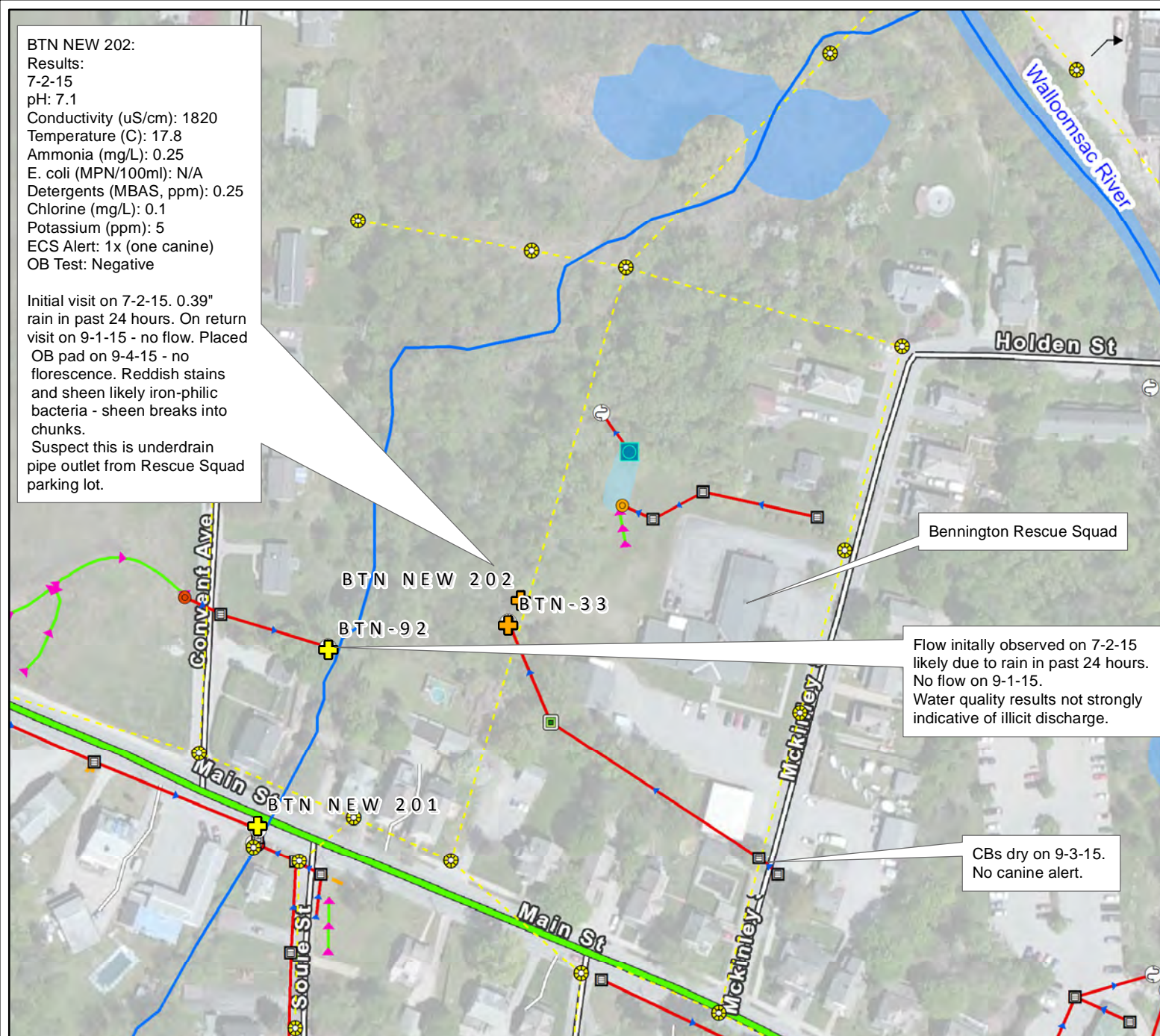
**Stormwater Infrastructure**

- Catchbasin
- Dry Well
- Junction Box
- + Stormwater Manhole
- + Sanitary Manhole
- ⤵ Outfall
- Culvert inlet
- Culvert outlet
- Pond outlet structure
- R Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow
- BMP Areas

Data: Imagery - Esri. Basemap - VCGI.  
 Stormwater Infrastructure - VT DEC



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CB-666:  
Results:  
8-6-15  
pH: 7.31  
Conductivity (uS/cm): 1133  
Temperature (C): 23.5  
Ammonia (mg/L): 0.75  
E. coli (MPN/100ml): <1 (detection limit)  
Detergents (MBAS, ppm): 0.25  
Chlorine (mg/L): 0  
Potassium (ppm): 3  
ECS Alert: 0x (no alert - on 9-1-15)



CB-684  
Results:  
8-6-15  
pH: 8.26  
Conductivity (uS/cm): 840  
Temperature (C): 21.2  
Ammonia (mg/L): 0.55  
E. coli (MPN/100ml): 32  
Detergents (MBAS, ppm): 0.25  
Chlorine (mg/L): 0  
Potassium (ppm): 2  
ECS Alert: N/A

Bennington IDDE  
Outfall Code: BTN-54





















Results:  
5-19-15  
pH: 7.95  
Conductivity (uS/cm): 970  
Temperature (C): 11.6  
Ammonia (mg/L): 0.31  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0.1  
Chlorine (mg/L): 0  
Potassium (ppm): 6  
ECS Alert: N/A

Initial testing on 5-19-15. 0.2" rain in previous 24 hours. Returned on 8-6-15 for follow-up. Returned again on 9-1-15 for follow-up for ECS. Do not suspect chronic illicit discharge.

### Bennington Outfalls Overall Characterization

-  Possible
-  Suspect

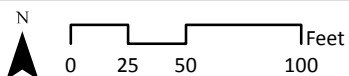
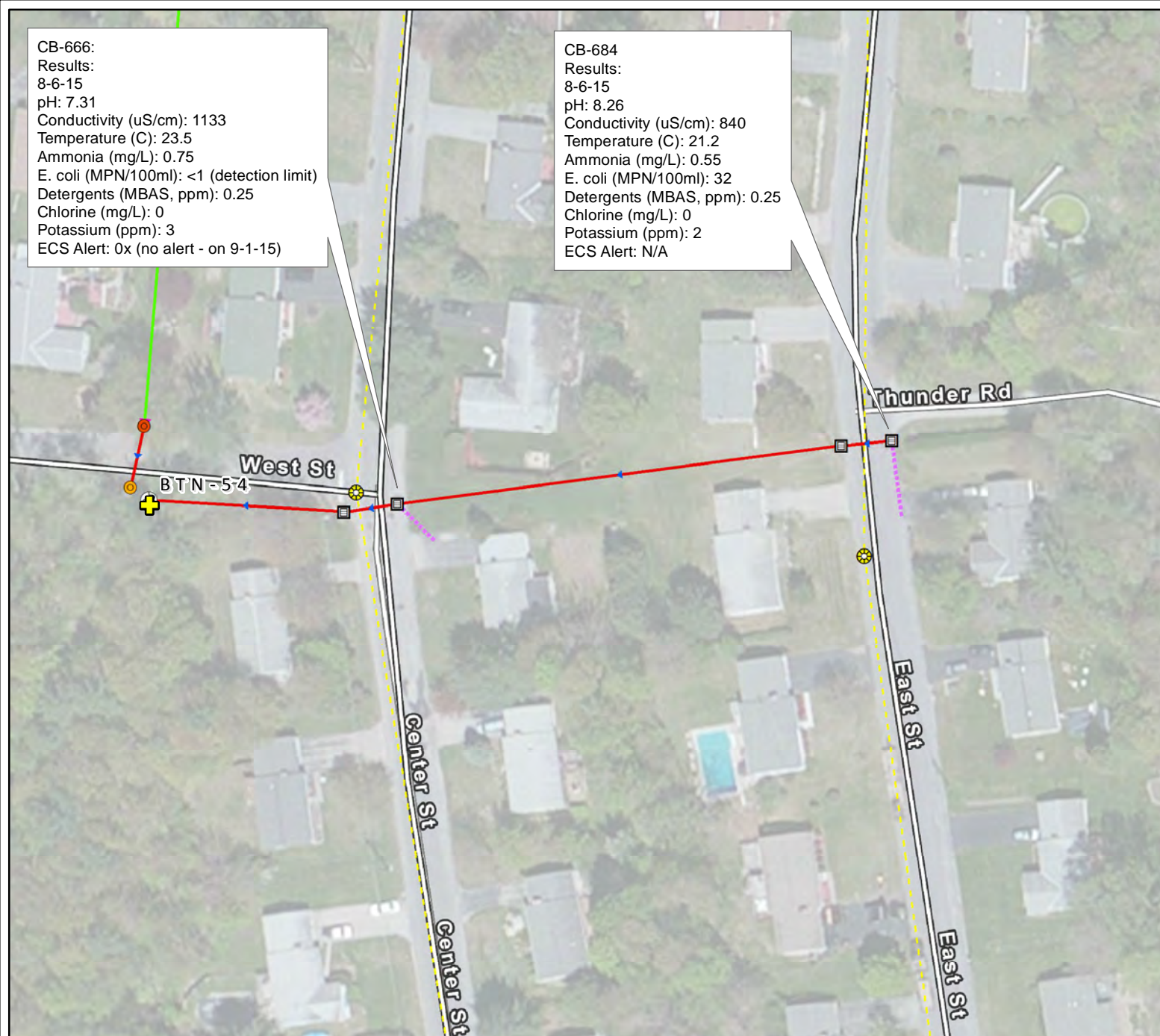
### Stormwater Infrastructure

-  Catchbasin
-  Dry Well
-  Junction Box
-  Stormwater Manhole
-  Sanitary Manhole
-  Outfall
-  Culvert inlet
-  Culvert outlet
-  Pond outlet structure
-  Retrofit
-  Storm line
-  Storm line (old Sanitary line)
-  Sanitary line
-  Swale
-  Footing drain
-  Under drain
-  Roof drain
-  Stream
-  Overland flow
-  BMP Areas

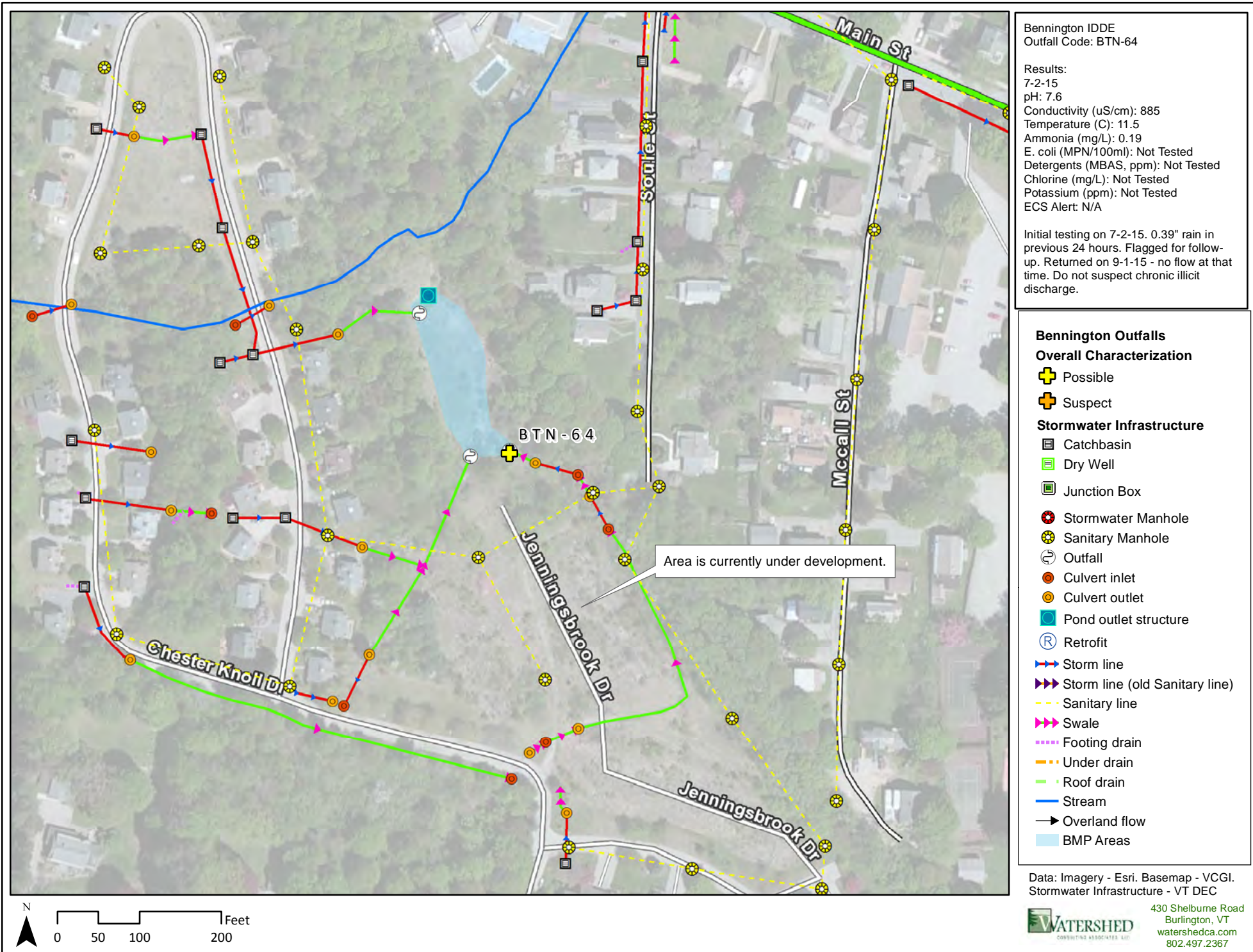
Data: Imagery - Esri. Basemap - VCGI.  
Stormwater Infrastructure - VT DEC



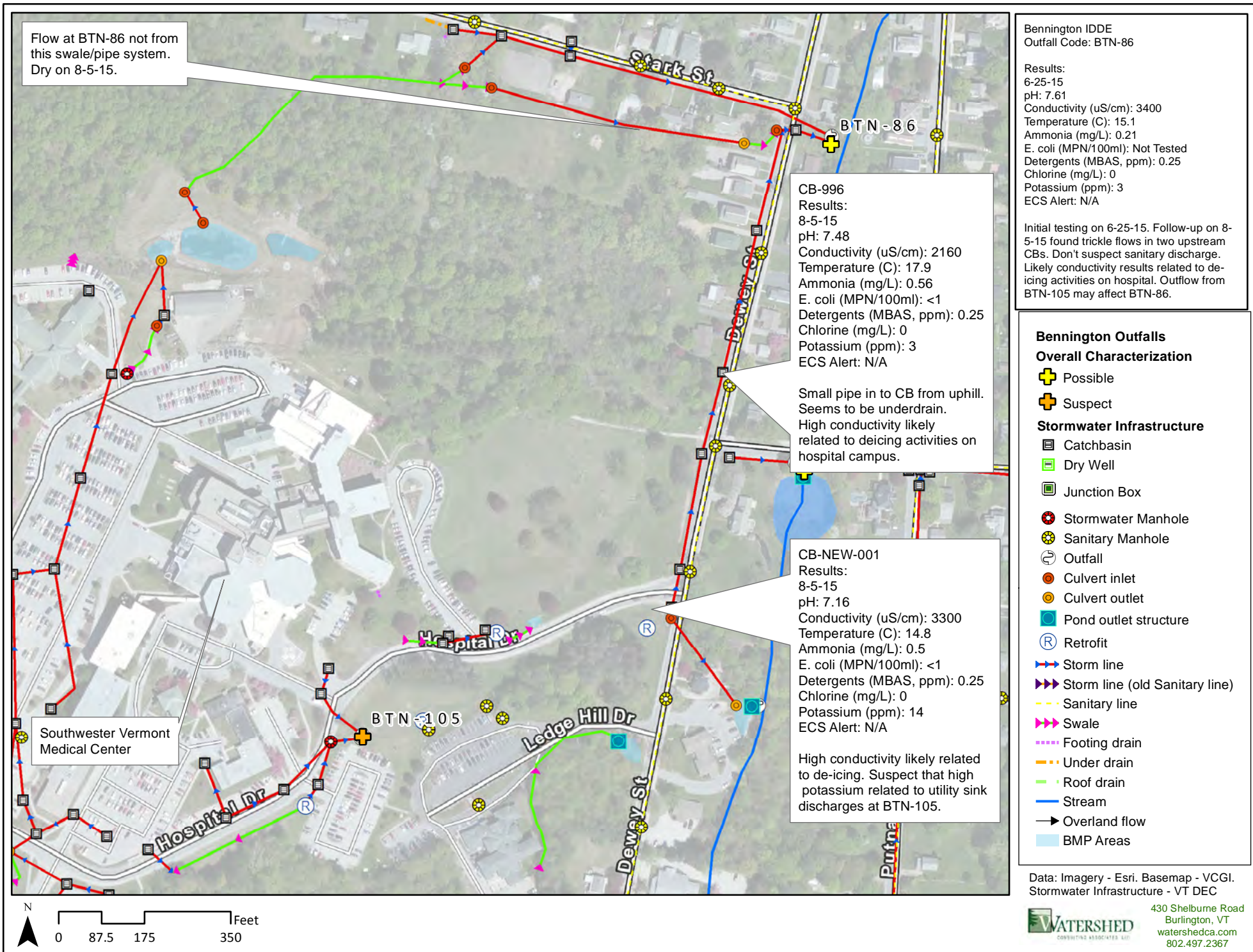
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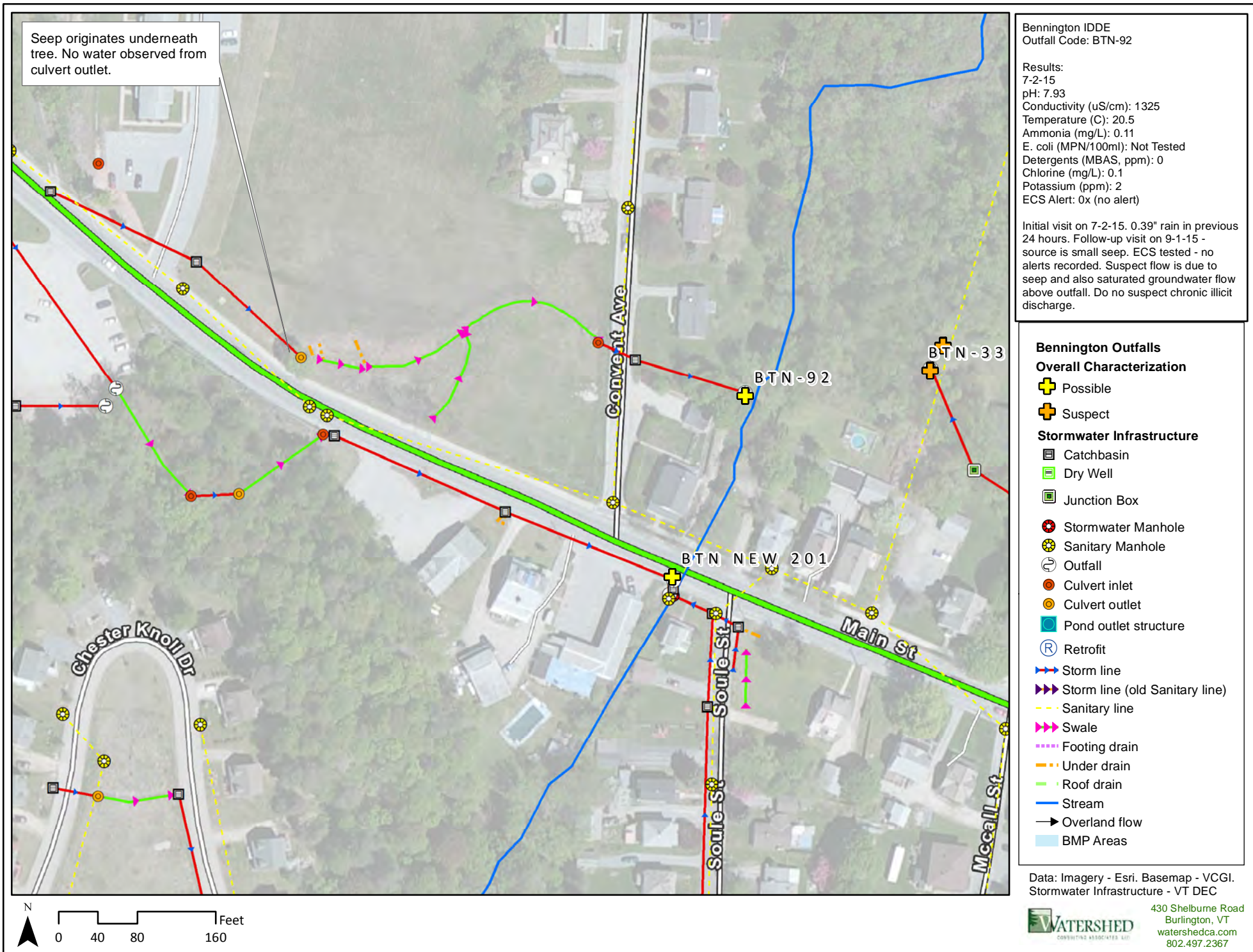




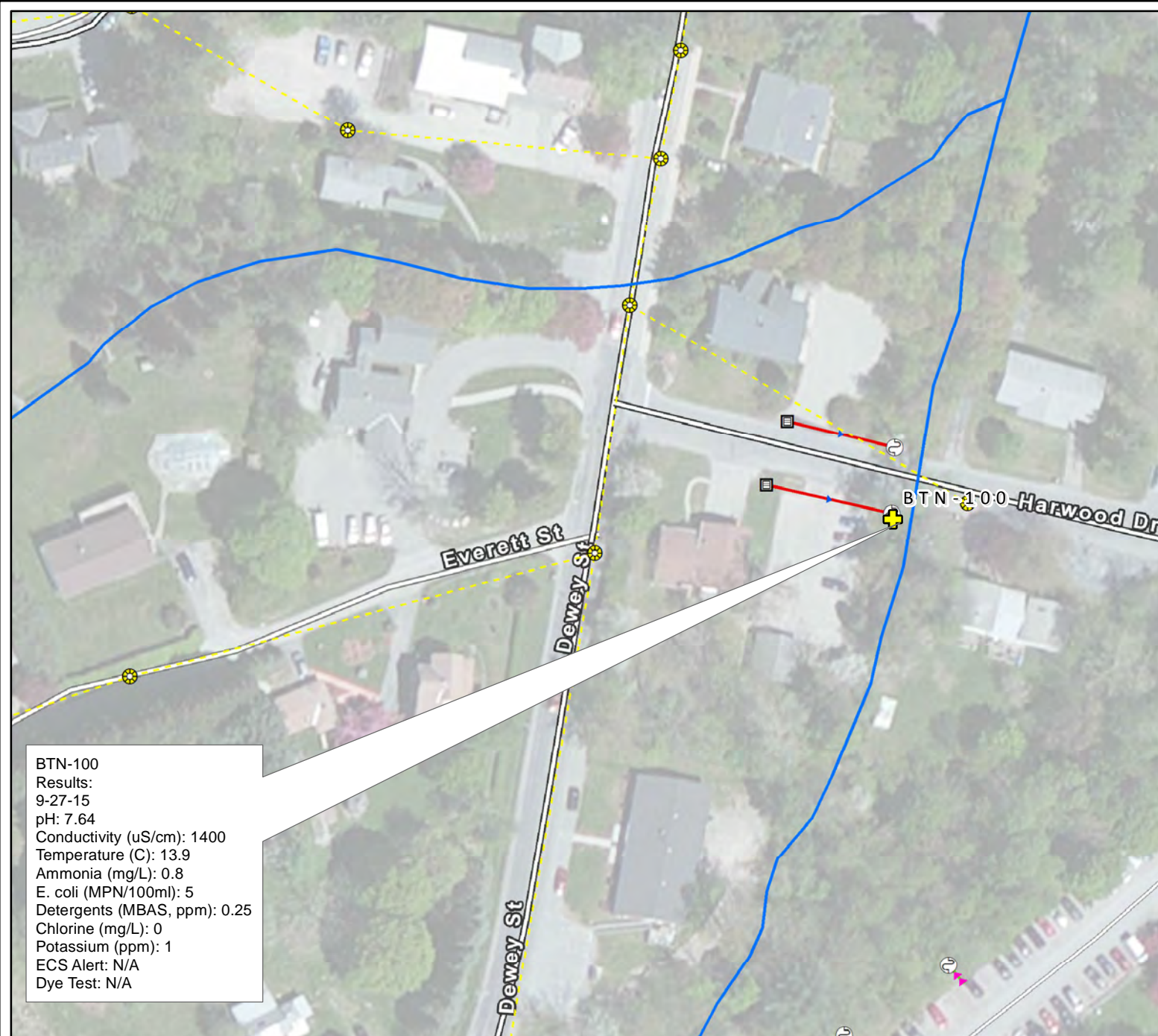












Bennington IDDE  
Outfall Code: BTN-100

Results:  
6-24-15  
pH: 7.38  
Conductivity (uS/cm): 1520  
Temperature (C): 18.5  
Ammonia (mg/L): 0.44  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0.15  
Chlorine (mg/L): 0  
Potassium (ppm): 1  
ECS Alert: N/A

Visited on 6-24-15 - 0.48" rain in past 24 hours. Return visit on 9-27-15. No rain past 48 hours. Trickle flow at that time. Collected sample for lab tests. While ammonia still somewhat elevated, detergents don't support possibility of chronic illicit discharge. Single CB also makes likelihood low.

#### Bennington Outfalls Overall Characterization

⊕ Possible

⊕ Suspect

#### Stormwater Infrastructure

☐ Catchbasin

☐ Dry Well

☐ Junction Box

⊗ Stormwater Manhole

⊗ Sanitary Manhole

⊗ Outfall

⊗ Culvert inlet

⊗ Culvert outlet

⊗ Pond outlet structure

Ⓡ Retrofit

➡ Storm line

➡ Storm line (old Sanitary line)

--- Sanitary line

➡ Swale

--- Footing drain

--- Under drain

--- Roof drain

--- Stream

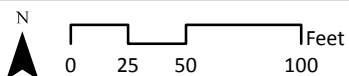
➡ Overland flow

■ BMP Areas

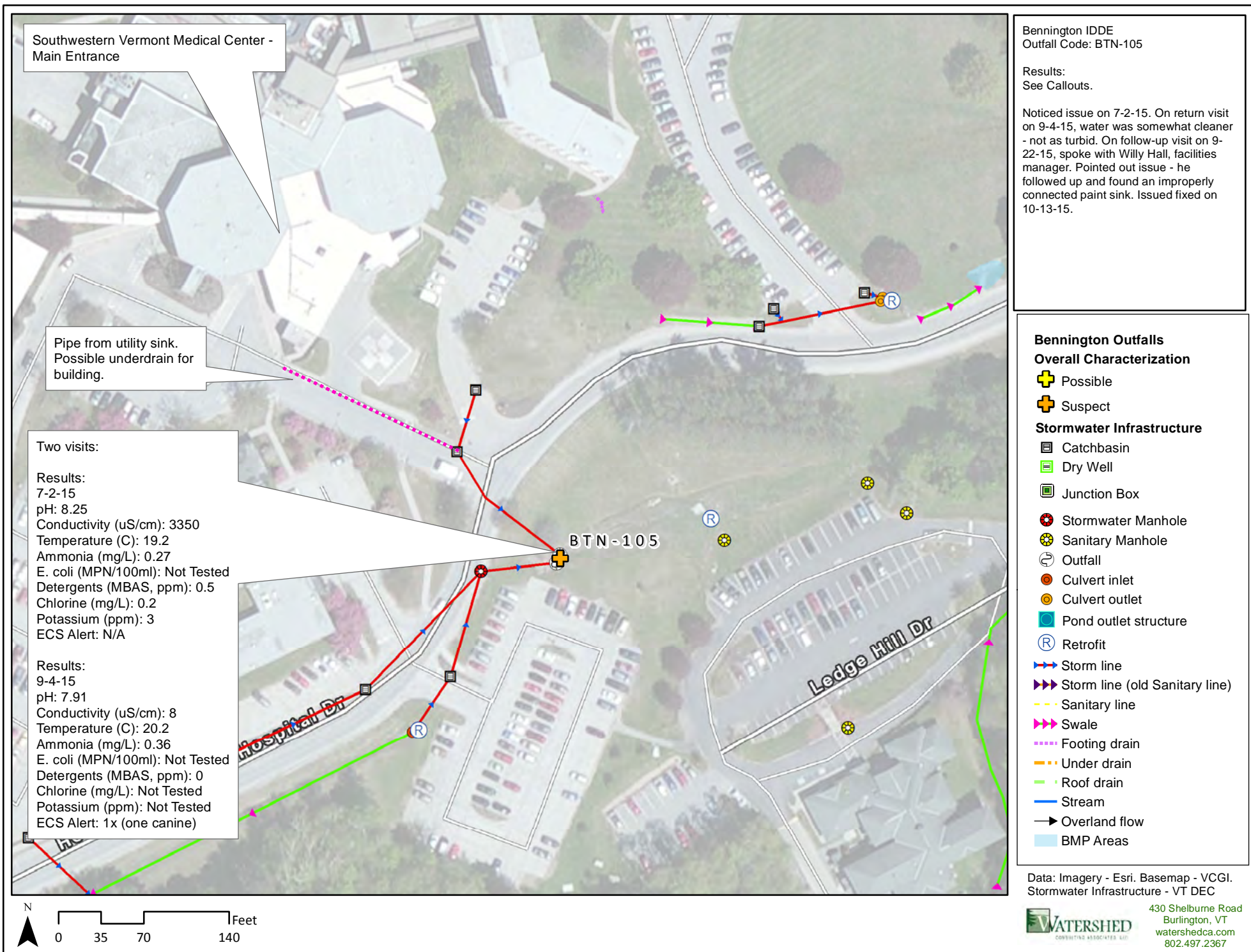
Data: Imagery - Esri. Basemap - VCGI.  
Stormwater Infrastructure - VT DEC



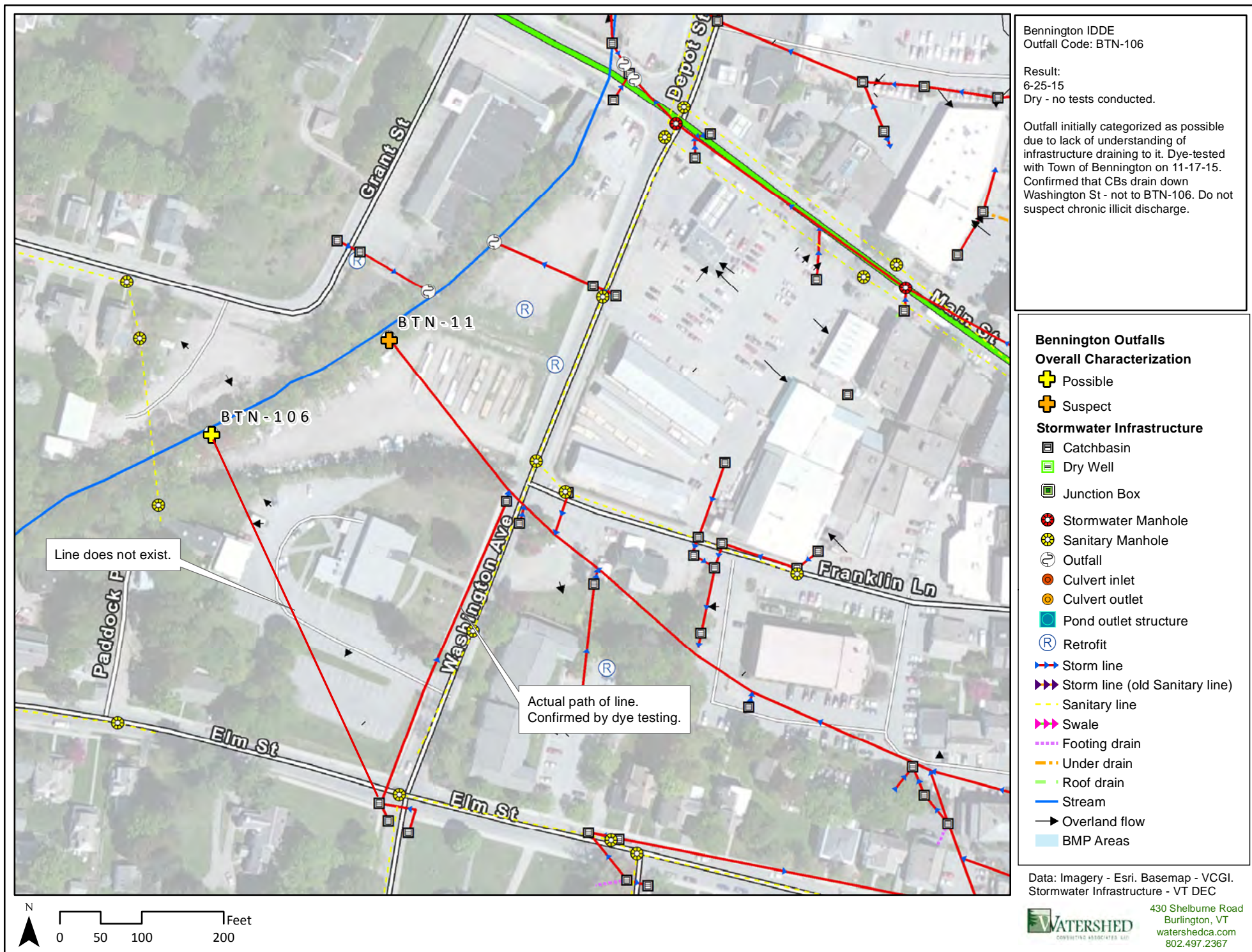
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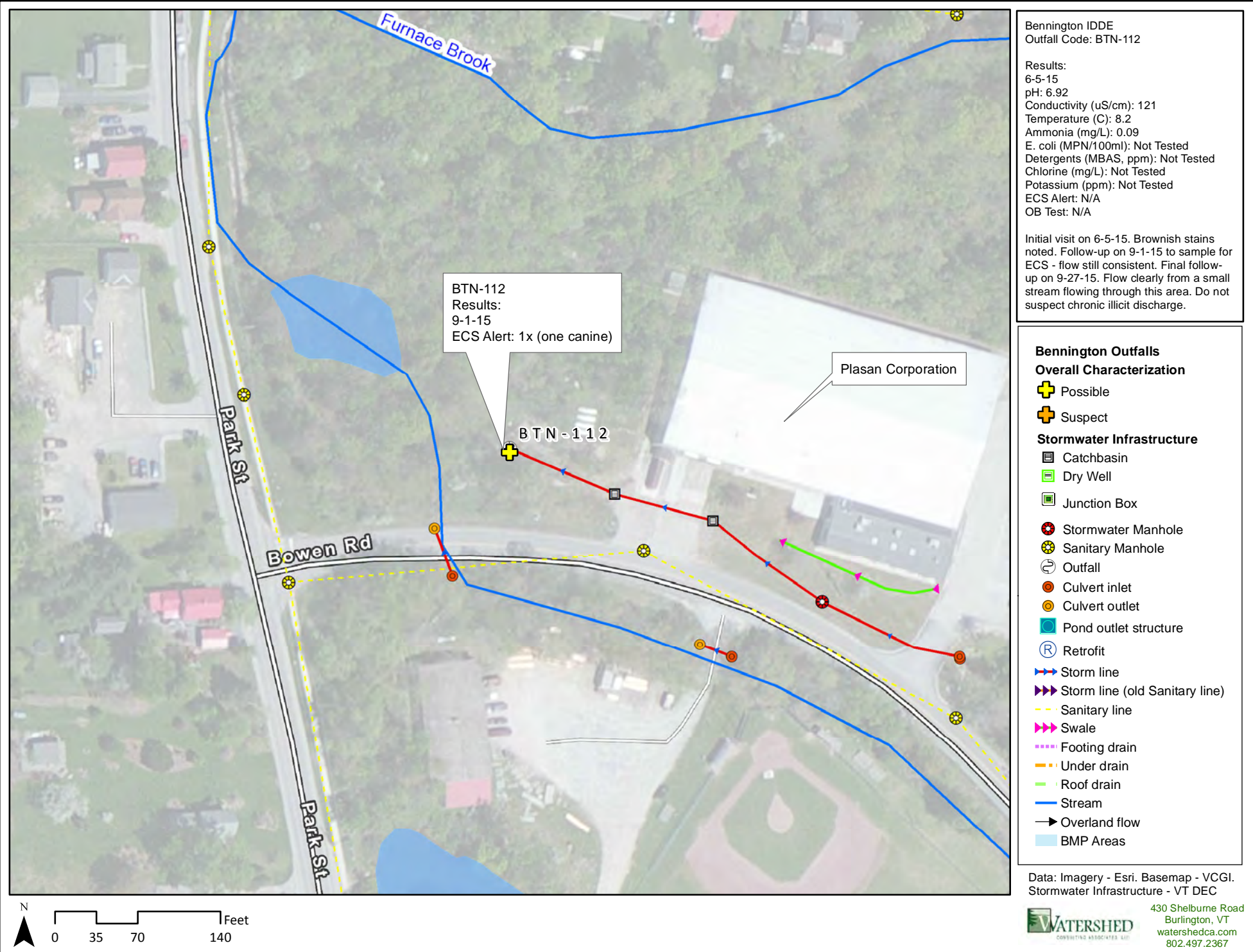




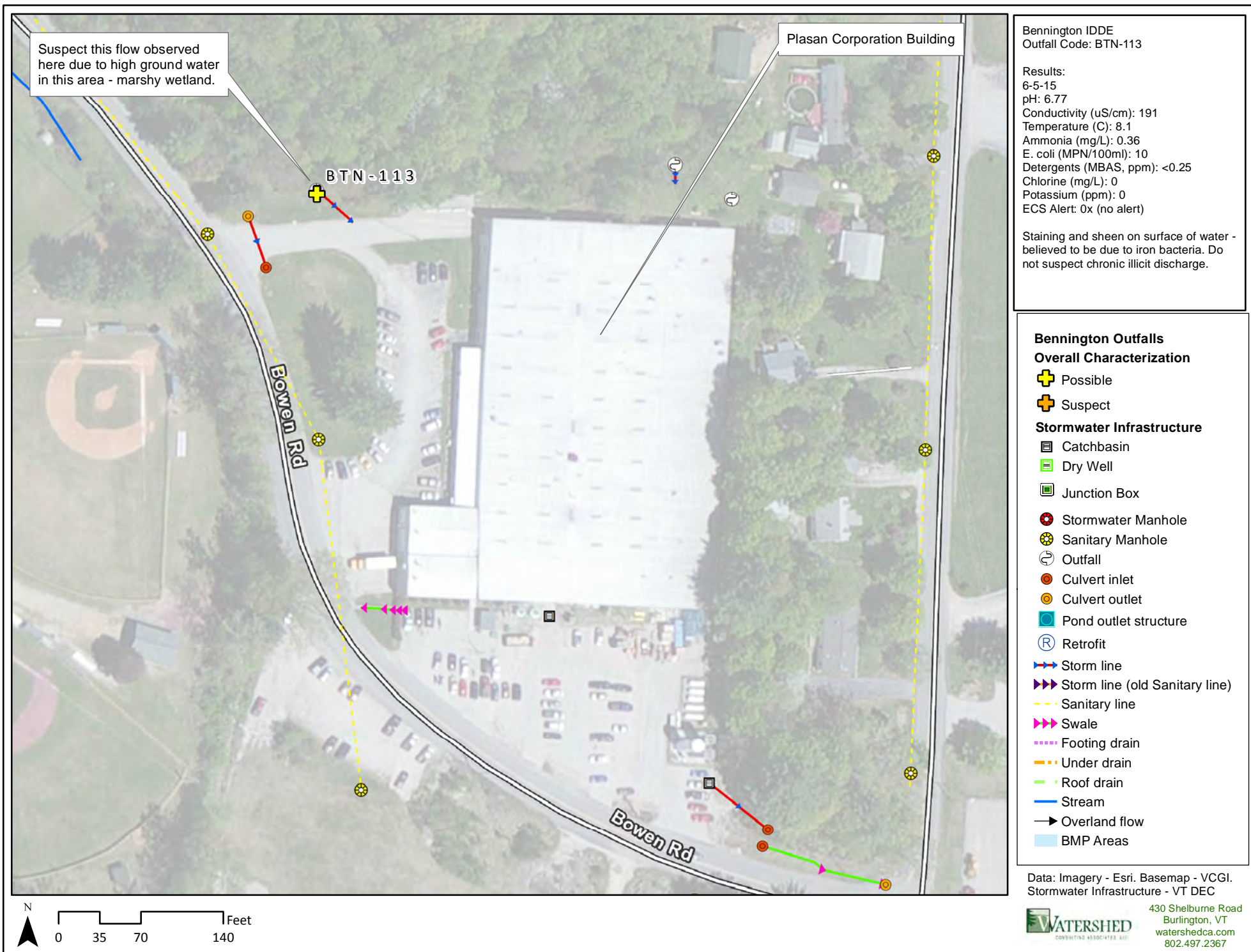




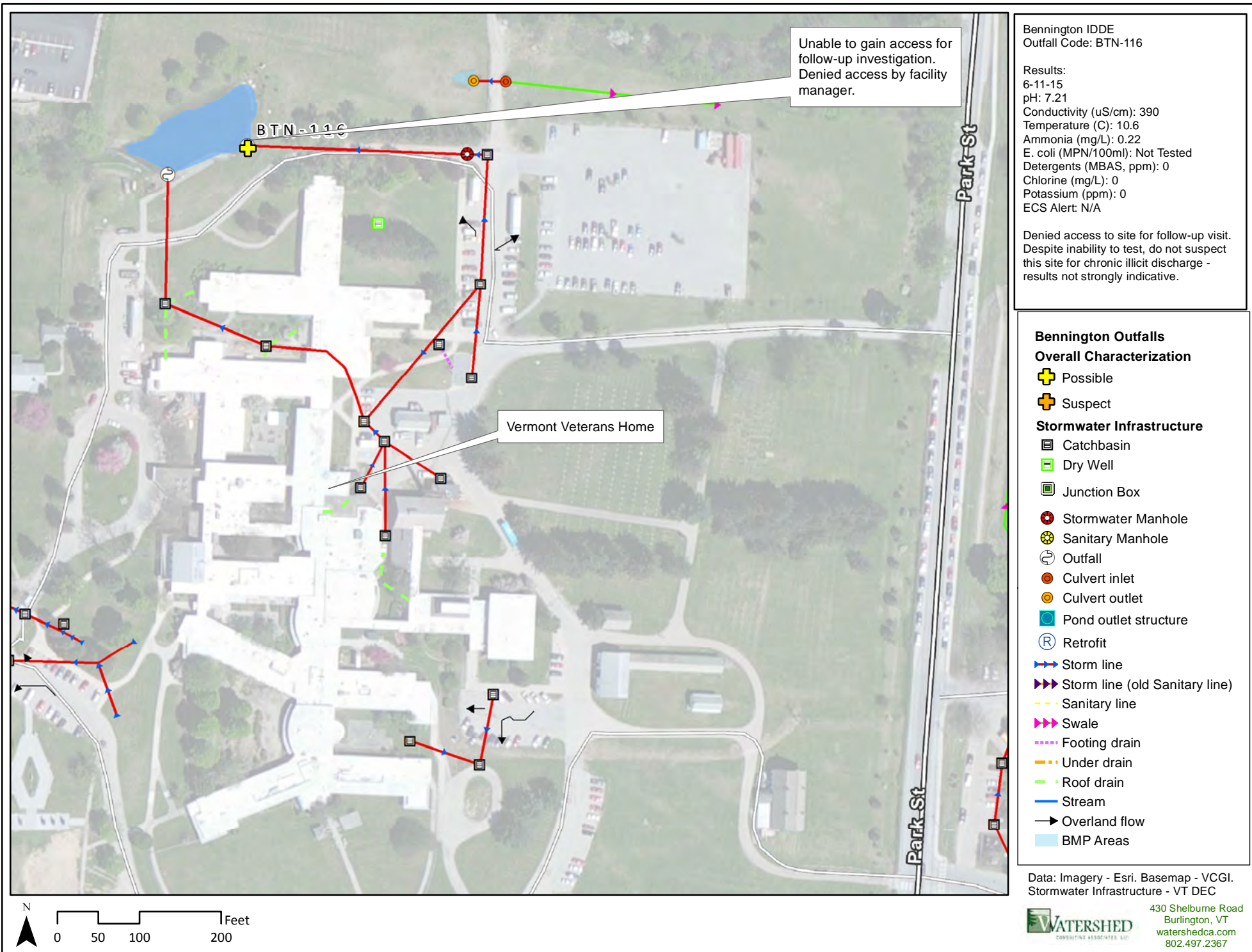




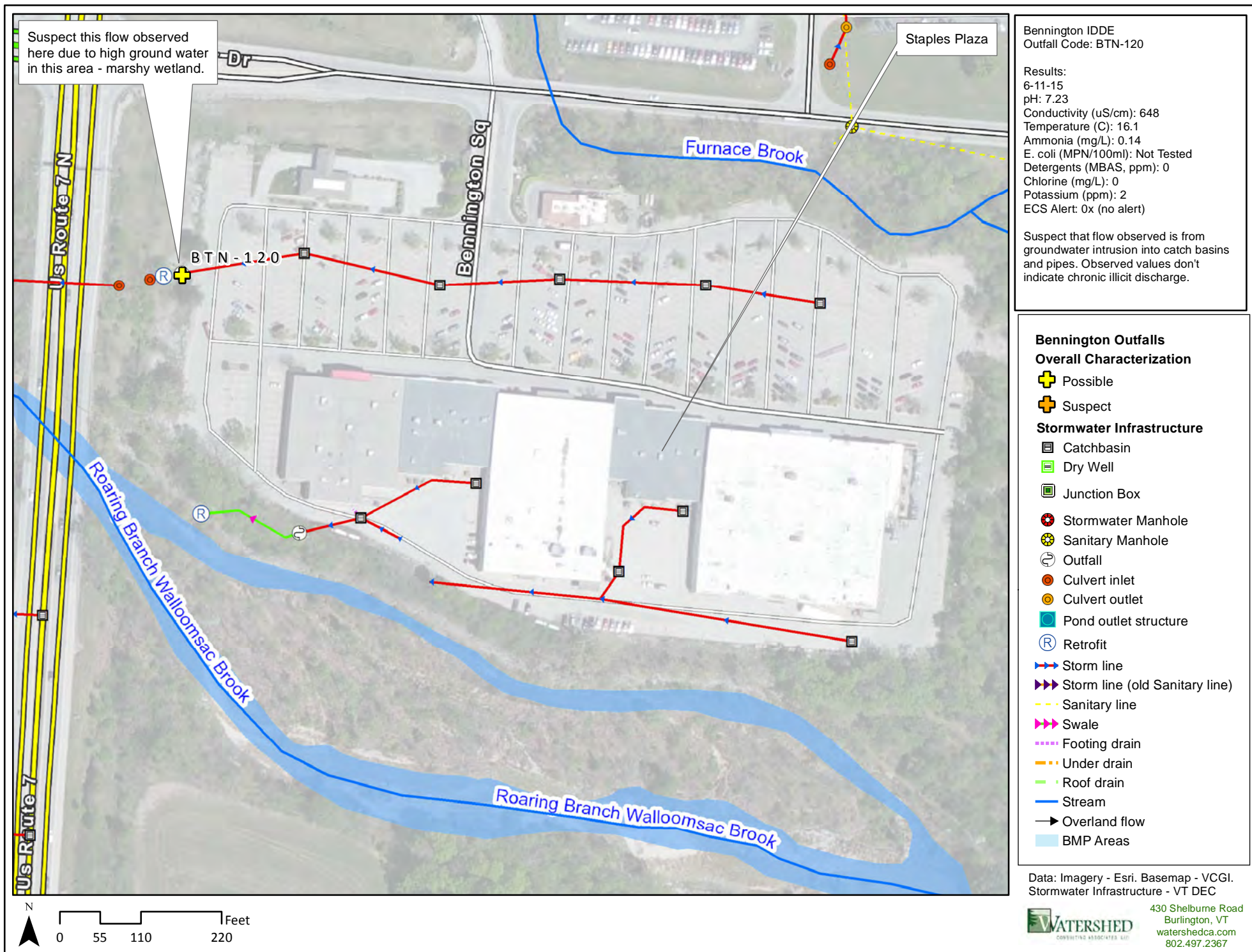








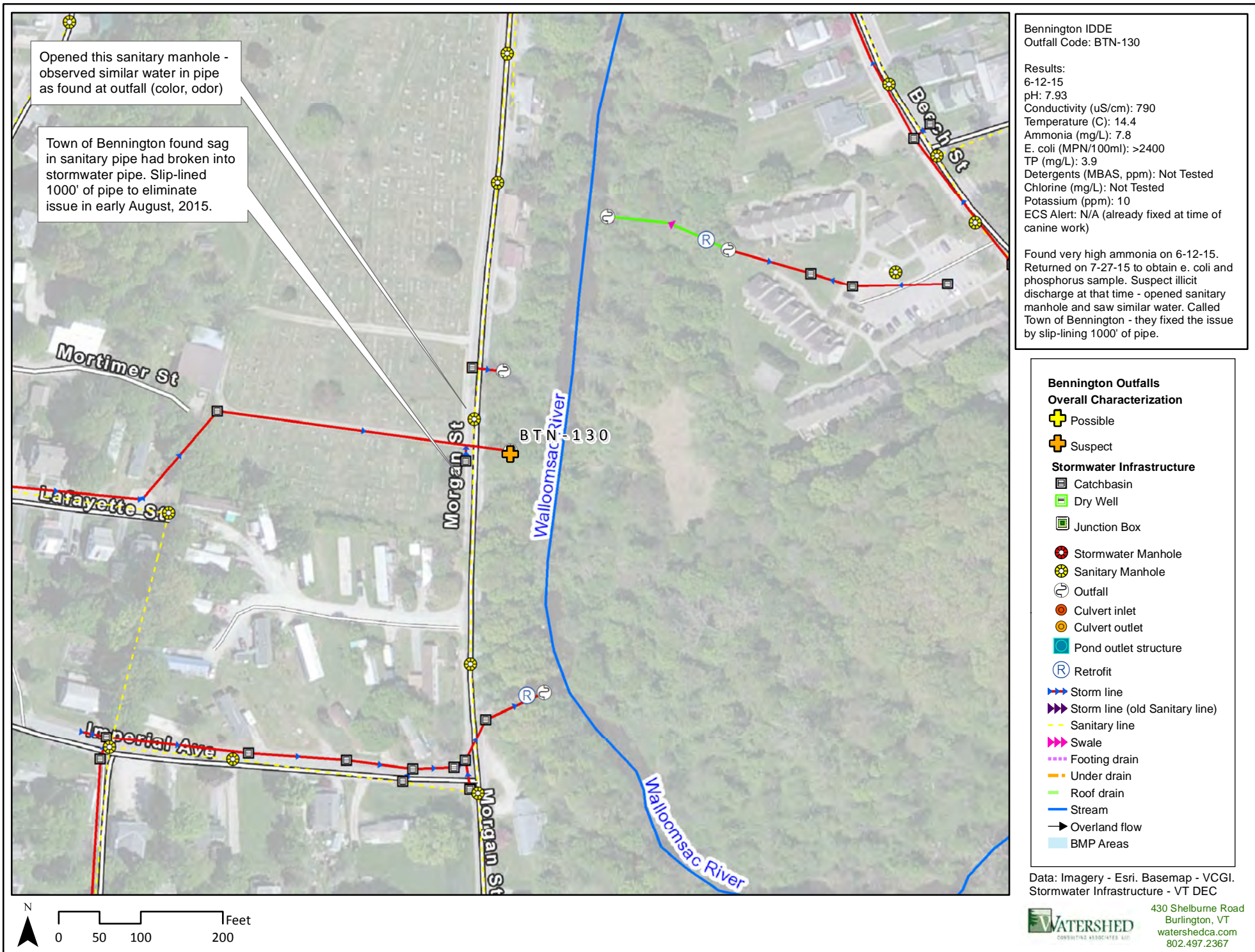




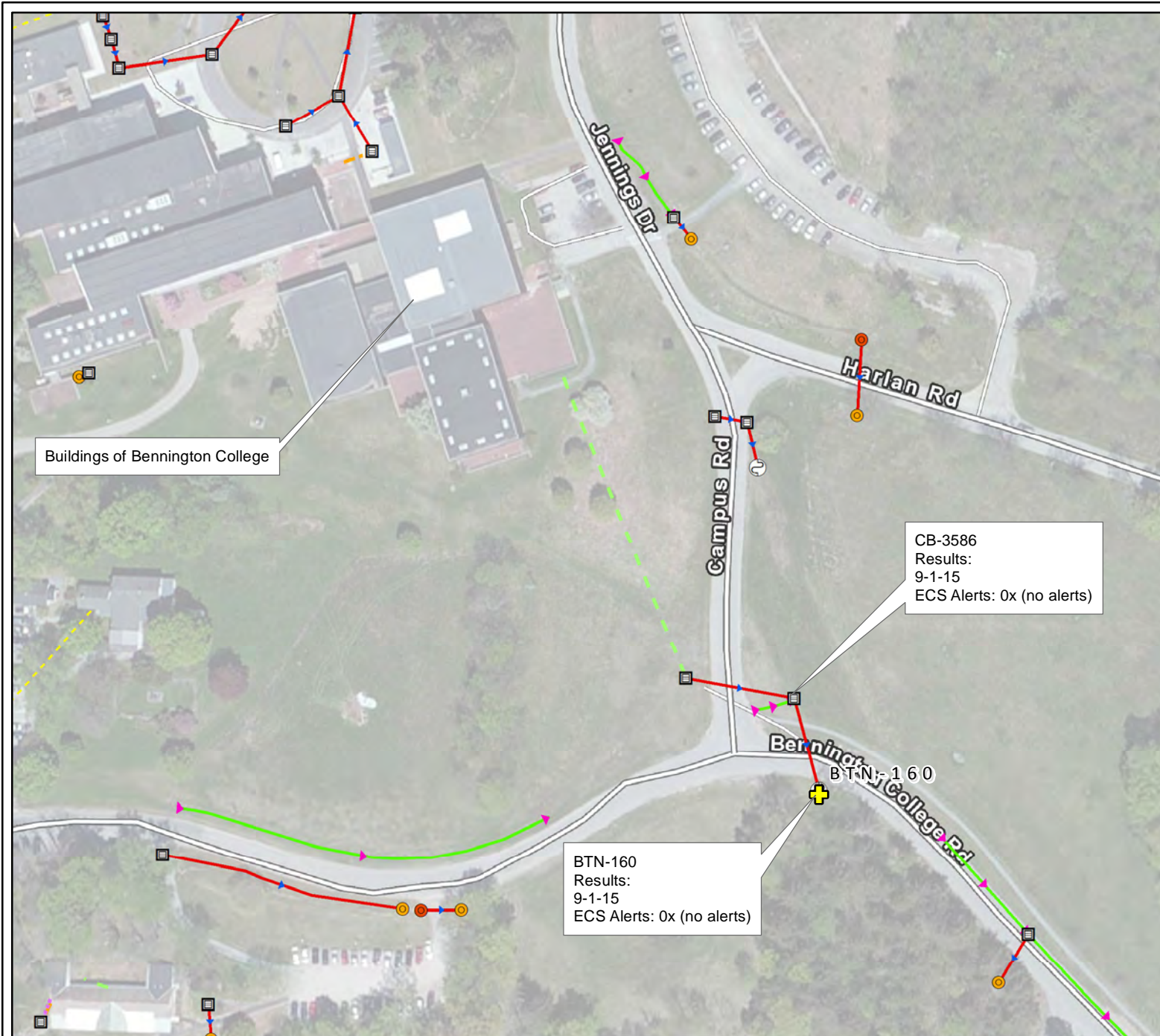












Bennington IDDE  
Outfall Code: BTN-160

Results:  
7-3-15  
pH: 8.04  
Conductivity (uS/cm): 2498  
Temperature (C): 15.2  
Ammonia (mg/L): 0.13  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0  
Chlorine (mg/L): 0  
Potassium (ppm): 1  
ECS Alert: 0x (no alerts)

Initial visit on 7-3-15. Follow-up visit on 9-1-15 to obtain sample for ECS. Also sampled water from CB-3586. No alerts on either. Do not suspect chronic illicit discharge. Conductivity likely related to de-icing on campus.

### Bennington Outfalls Overall Characterization

✚ Possible

✚ Suspect

### Stormwater Infrastructure

☐ Catchbasin

☐ Dry Well

☐ Junction Box

⊙ Stormwater Manhole

⊙ Sanitary Manhole

⊙ Outfall

⊙ Culvert inlet

⊙ Culvert outlet

☐ Pond outlet structure

Ⓡ Retrofit

➡ Storm line

➡ Storm line (old Sanitary line)

--- Sanitary line

➡ Swale

--- Footing drain

--- Under drain

--- Roof drain

--- Stream

➡ Overland flow

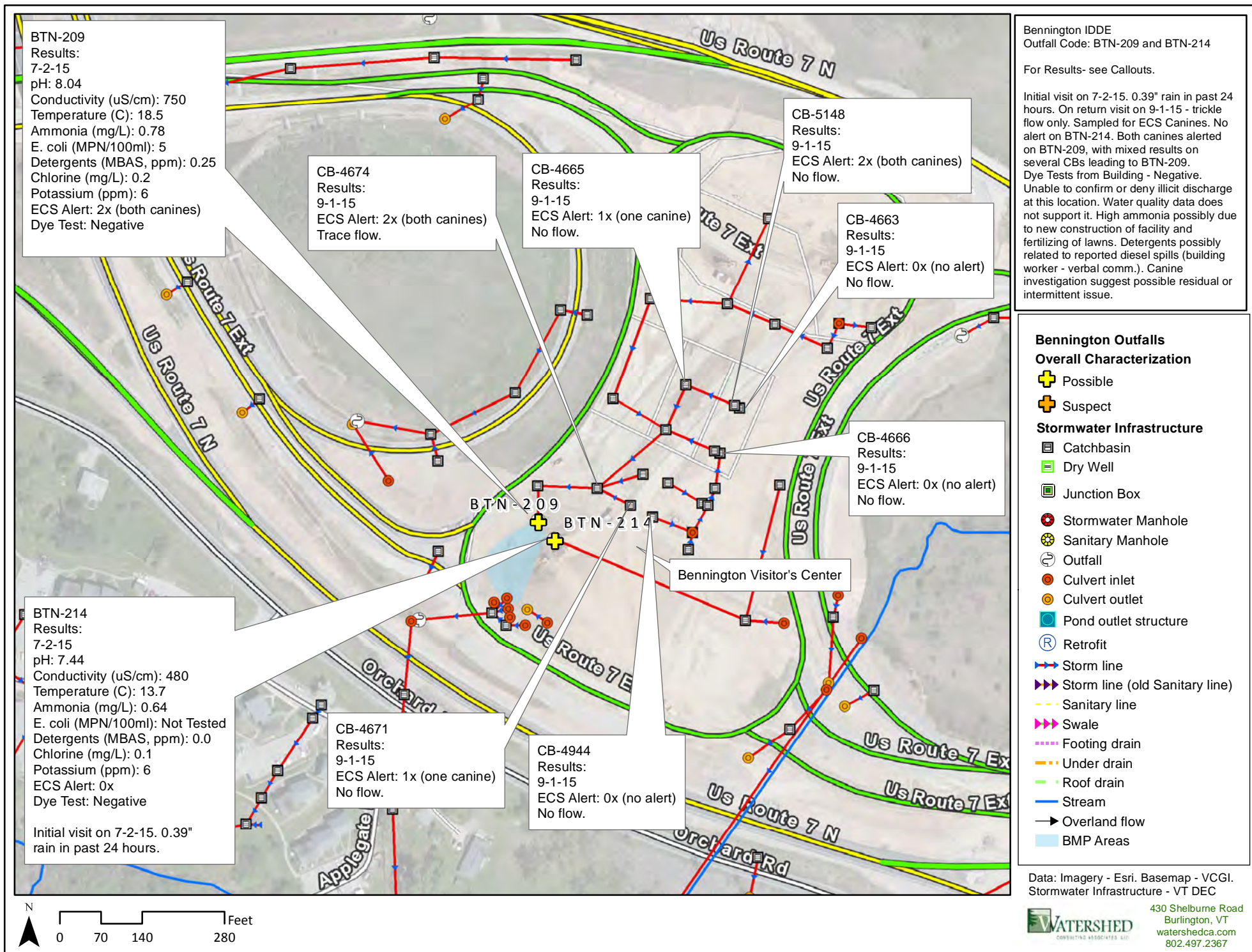
☐ BMP Areas

Data: Imagery - Esri. Basemap - VCGI.  
Stormwater Infrastructure - VT DEC

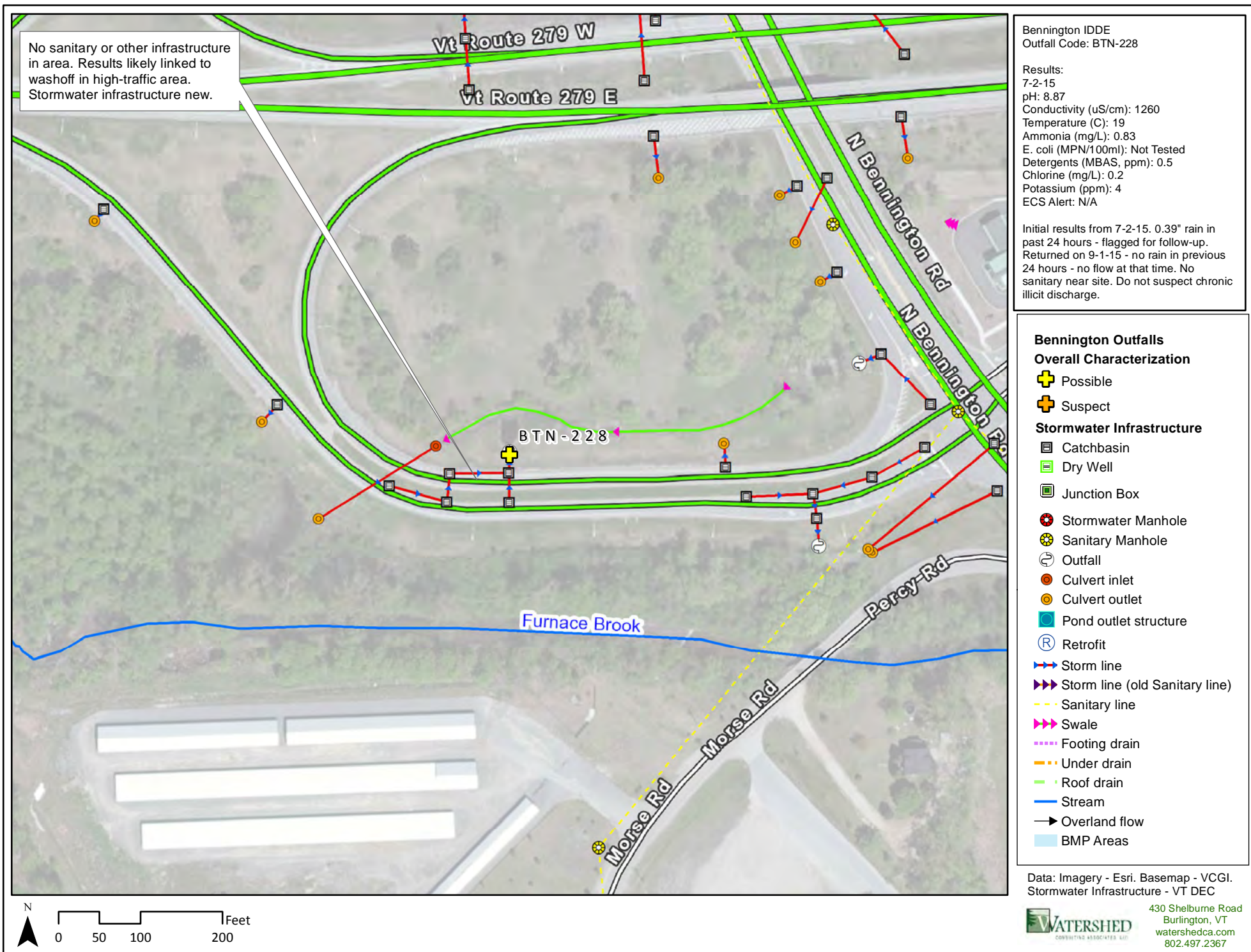


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No sanitary or other infrastructure in area. Results likely linked to washoff in high-traffic area. Stormwater infrastructure new.

Bennington IDDE  
Outfall Code: BTN-235

**Results:**

7-2-15  
pH: 8.41  
Conductivity (uS/cm): 1210  
Temperature (C): 16.1  
Ammonia (mg/L): 0.78  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0  
Chlorine (mg/L): 0  
Potassium (ppm): 1  
ECS Alert: N/A

Initial results from 7-2-15. 0.39" rain in past 24 hours - flagged for follow-up. Returned on 9-1-15 - no rain in previous 24 hours - no flow at that time. No sanitary near site. Do not suspect chronic illicit discharge.

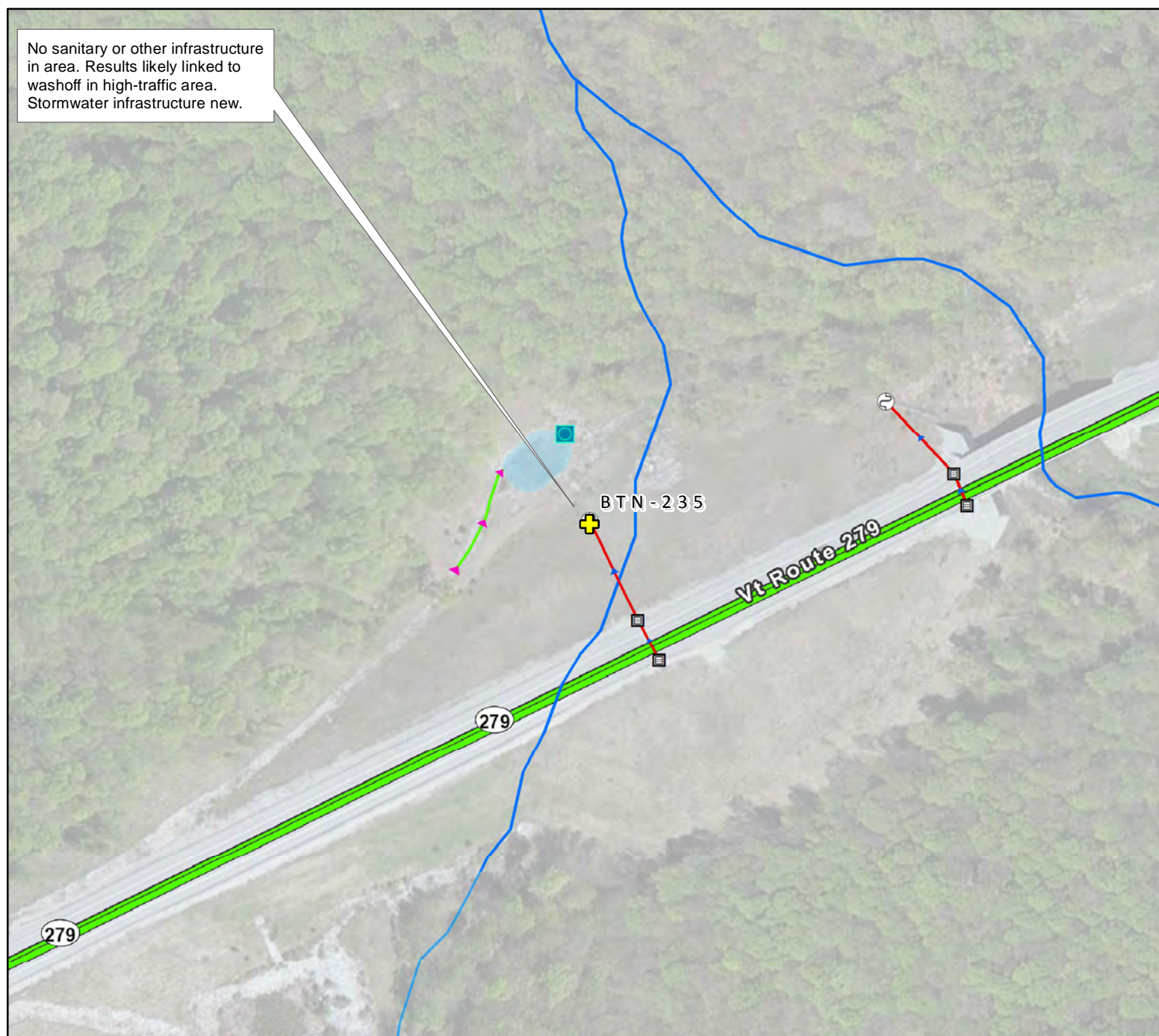
**Bennington Outfalls**

**Overall Characterization**

- + Possible
- + Suspect

**Stormwater Infrastructure**

- Catchbasin
- Dry Well
- Junction Box
- + Stormwater Manhole
- + Sanitary Manhole
- ⤵ Outfall
- Culvert inlet
- Culvert outlet
- ⊞ Pond outlet structure
- R Retrofit
- ➡➡➡ Storm line
- ➡➡➡ Storm line (old Sanitary line)
- Sanitary line
- ➡➡➡ Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- ➡ Overland flow
- BMP Areas

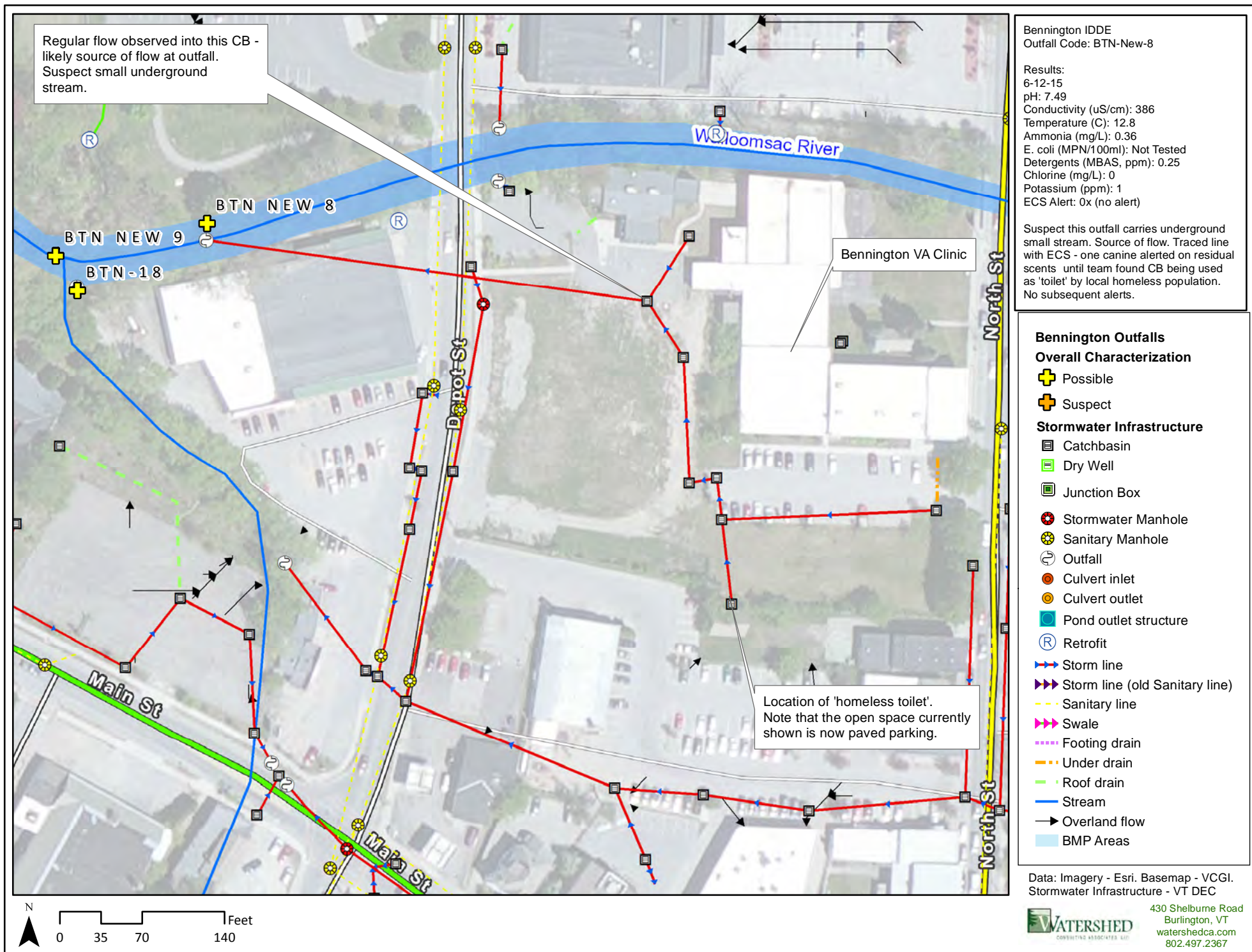


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Stormwater Infrastructure - VT DEC

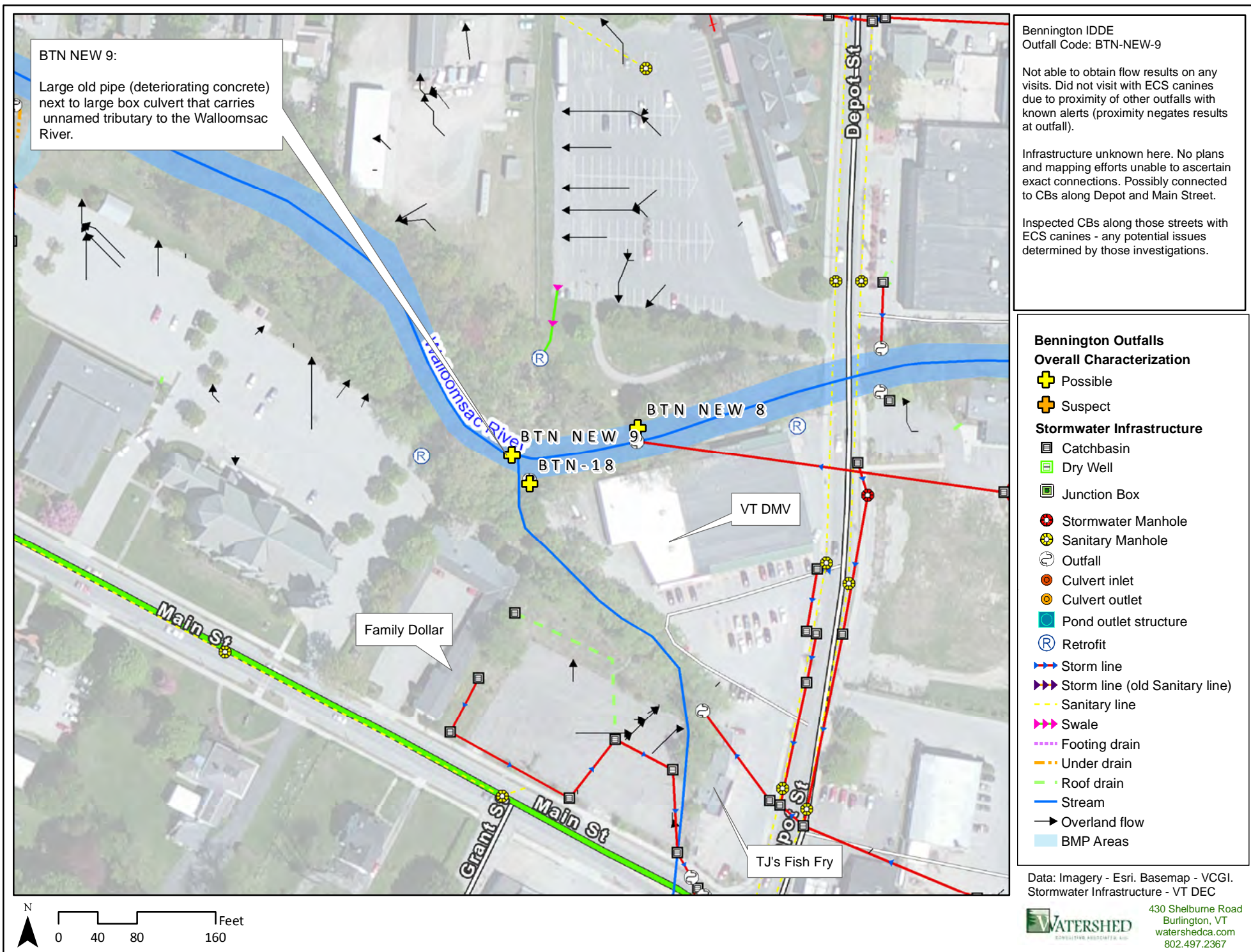


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Sump Pump Pool Sample  
Results:  
9-27-15  
pH: 7.5  
Conductivity (uS/cm): 2400  
Temperature (C): 7.49  
Ammonia (mg/L): 0.01  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0.5  
Chlorine (mg/L): 0  
Potassium (ppm): 1  
ECS Alert: N/A  
OB Test: N/A

Bennington IDDE  
Outfall Code: BTN-NEW-32

Results:  
6-24-15  
pH: 7.49  
Conductivity (uS/cm): >2400  
Temperature (C): 7.49  
Ammonia (mg/L): 0.14  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0.25  
Chlorine (mg/L): 0  
Potassium (ppm): 0  
ECS Alert: N/A  
OB Test: Negative

Initial visit on 6-24-15 - 0.48" rain in past 24 hours. Observed intermittent flow - like pumped flow. Returned on 9-27-15. Observed sump pump arrangement in basement of business. Sampled pool of sump for lab. Results consistent. Don't suspect chronic illicit discharge.

Advanced Eye Care

BTN NEW 32

### Bennington Outfalls Overall Characterization

✚ Possible

✚ Suspect

### Stormwater Infrastructure

☐ Catchbasin

☐ Dry Well

☐ Junction Box

⊕ Stormwater Manhole

⊕ Sanitary Manhole

⊕ Outfall

⊕ Culvert inlet

⊕ Culvert outlet

⊕ Pond outlet structure

⊕ Retrofit

➡ Storm line

➡ Storm line (old Sanitary line)

--- Sanitary line

➡ Swale

➡ Footing drain

➡ Under drain

➡ Roof drain

➡ Stream

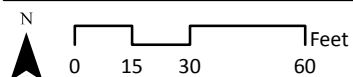
➡ Overland flow

➡ BMP Areas

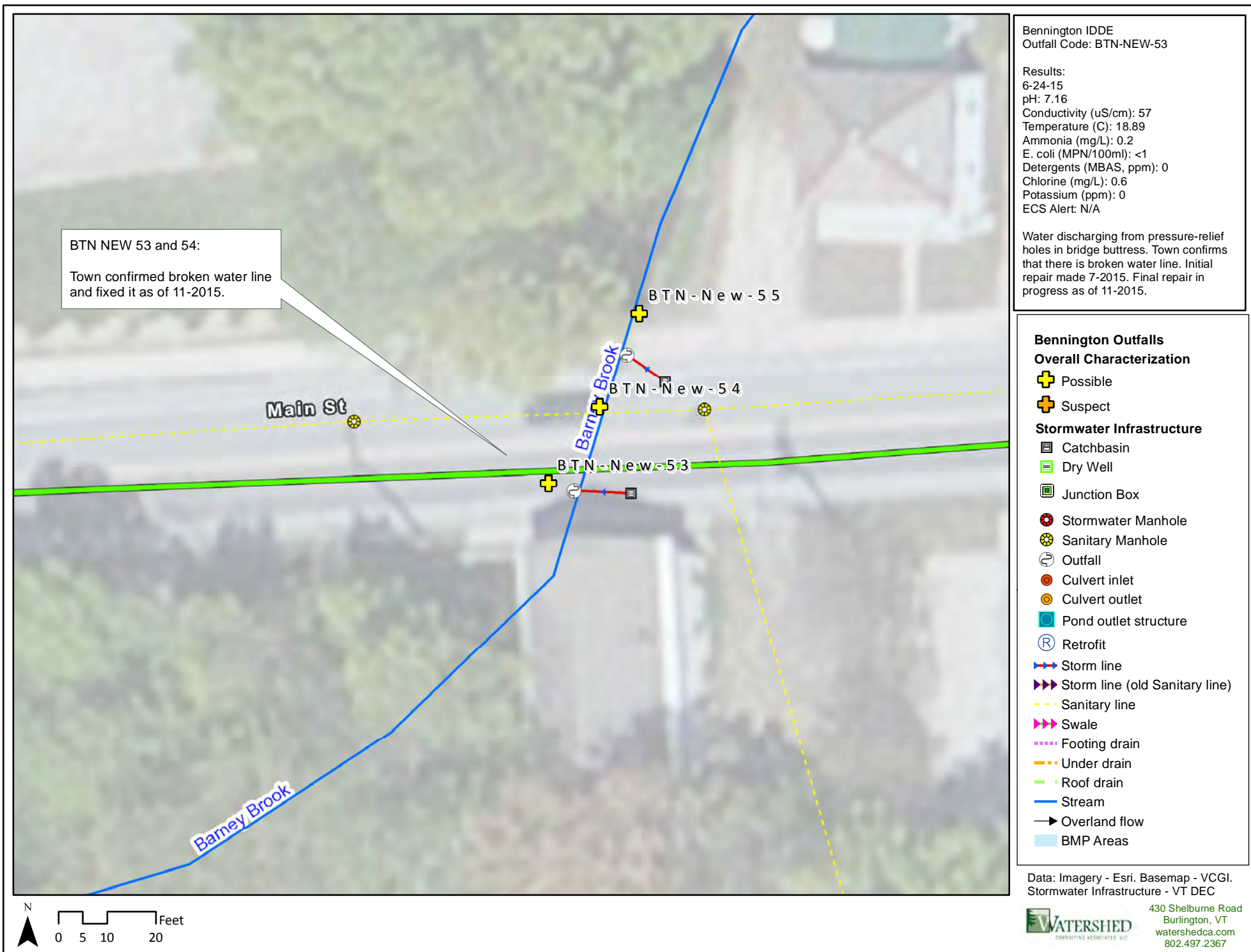
Data: Imagery - Esri. Basemap - VCGI.  
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Bennington IDDE  
Outfall Code: BTN-NEW-107

**Results:**

6-25-15  
pH: 8.45  
Conductivity (uS/cm): 970  
Temperature (C): 16.0  
Ammonia (mg/L): 0.33  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0  
Chlorine (mg/L): 0  
Potassium (ppm): 0  
ECS Alert: N/A

Initial visit on 6-25-15 - 0.48" rain in past 48 hours. Observed trickle flow from 6" concrete pipe. Re-visited on 9-27-15 - trickle flow. Unable to conduct dye test - residence is low-use. Do not suspect chronic illicit discharge based on water quality results.

**Bennington Outfalls**  
**Overall Characterization**

⊕ Possible

⊕ Suspect

**Stormwater Infrastructure**

☐ Catchbasin

☐ Dry Well

☐ Junction Box

⊕ Stormwater Manhole

⊕ Sanitary Manhole

⊕ Outfall

⊕ Culvert inlet

⊕ Culvert outlet

⊕ Pond outlet structure

⊕ Retrofit

⊕ Storm line

⊕ Storm line (old Sanitary line)

⊕ Sanitary line

⊕ Swale

⊕ Footing drain

⊕ Under drain

⊕ Roof drain

⊕ Stream

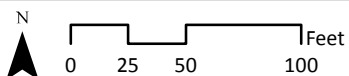
⊕ Overland flow

⊕ BMP Areas

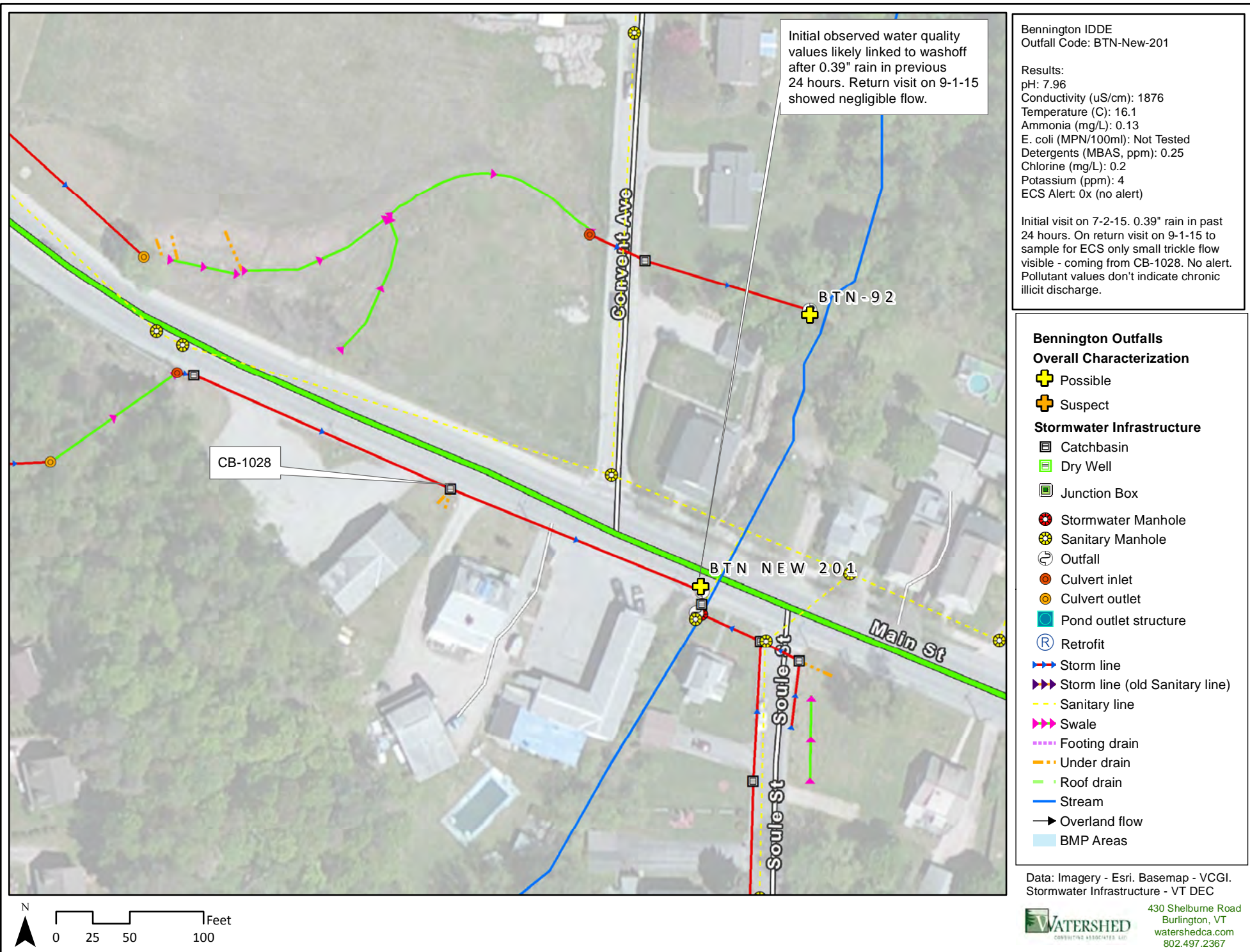
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Stormwater Infrastructure - VT DEC



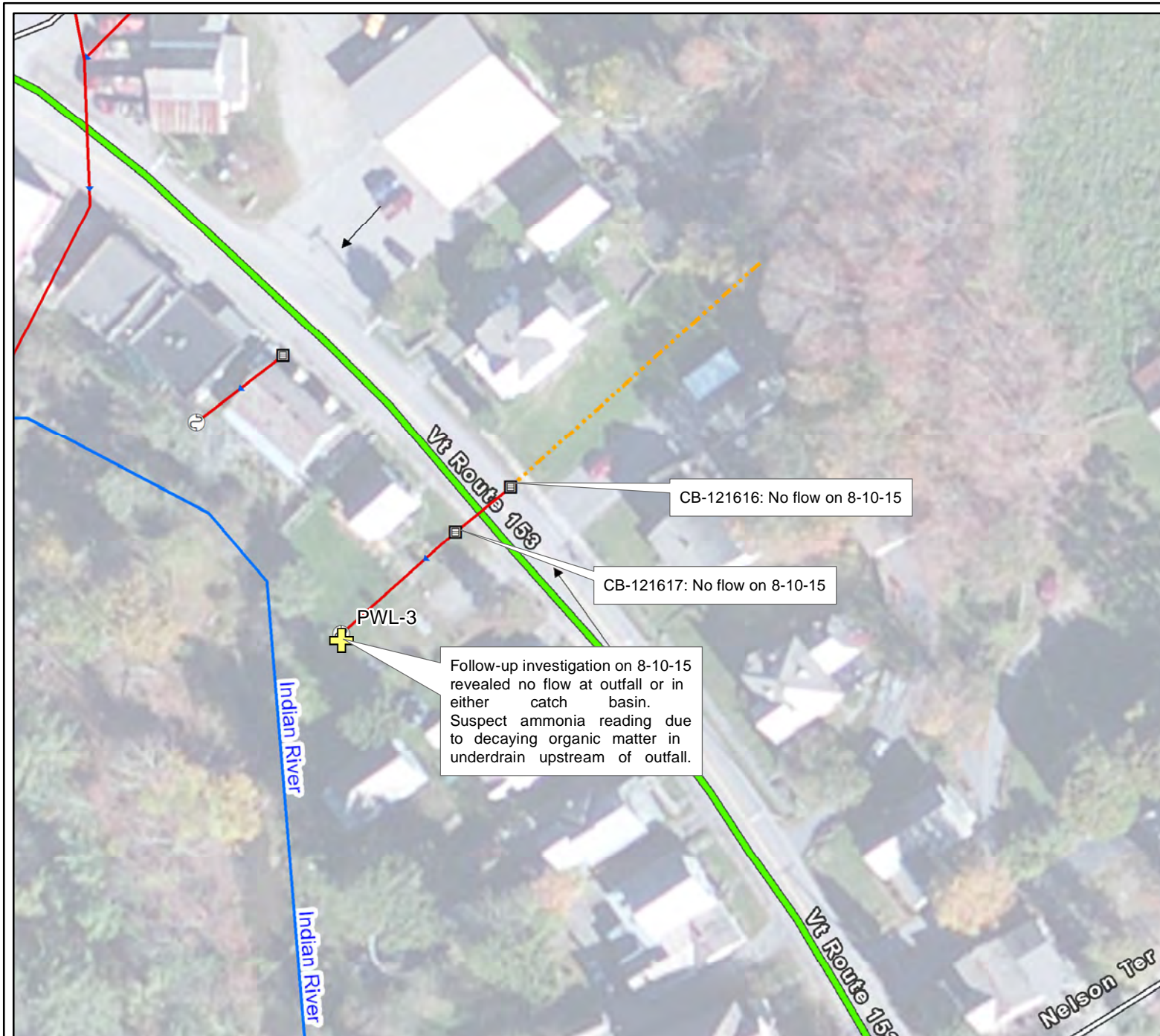
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Pawlet IDDE  
Outfall Code: PWL-3

**Results:**

7-9-15  
pH: 7.46  
Conductivity (uS/cm): 390  
Temperature (C): 14.3  
Ammonia (mg/L): 0.45  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0  
Chlorine (mg/L): 0  
Potassium (ppm): 3  
ECS Alert: N/A  
TP (mg/L): Not Tested

Some pipe growth present on initial survey on 7-9-15. No flow present on return investigation on 8-10-15. Do not suspect chronic illicit discharge.

**Pawlet Outfalls**

**Overall Characterization**

- Possible
- Suspect
- Catchbasin
- Dry Well
- Junction Box
- Stormwater Manhole
- Sanitary Manhole
- Outfall
- Culvert inlet
- Culvert outlet
- Pond outlet structure
- Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow

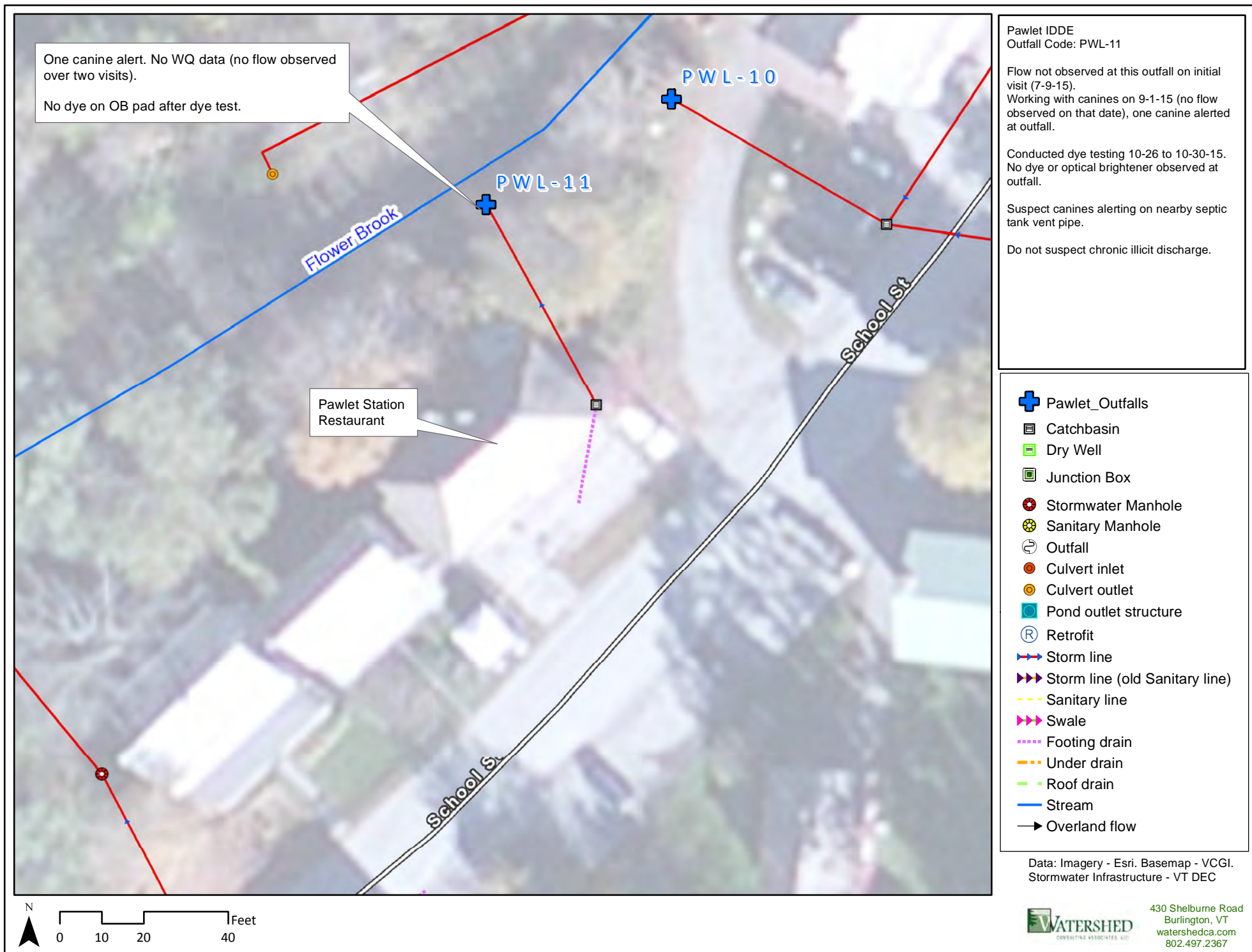
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Stormwater Infrastructure - VT DEC



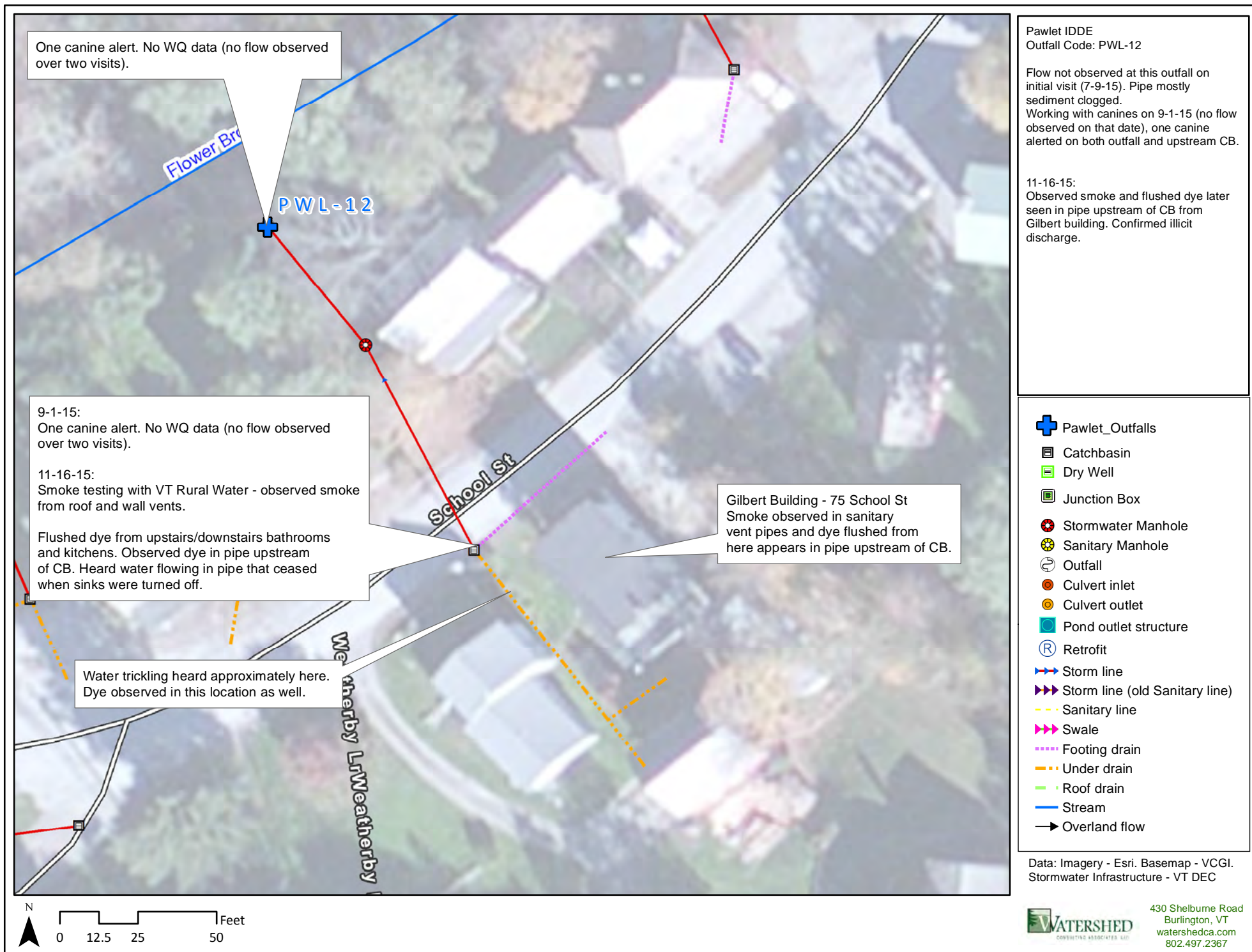
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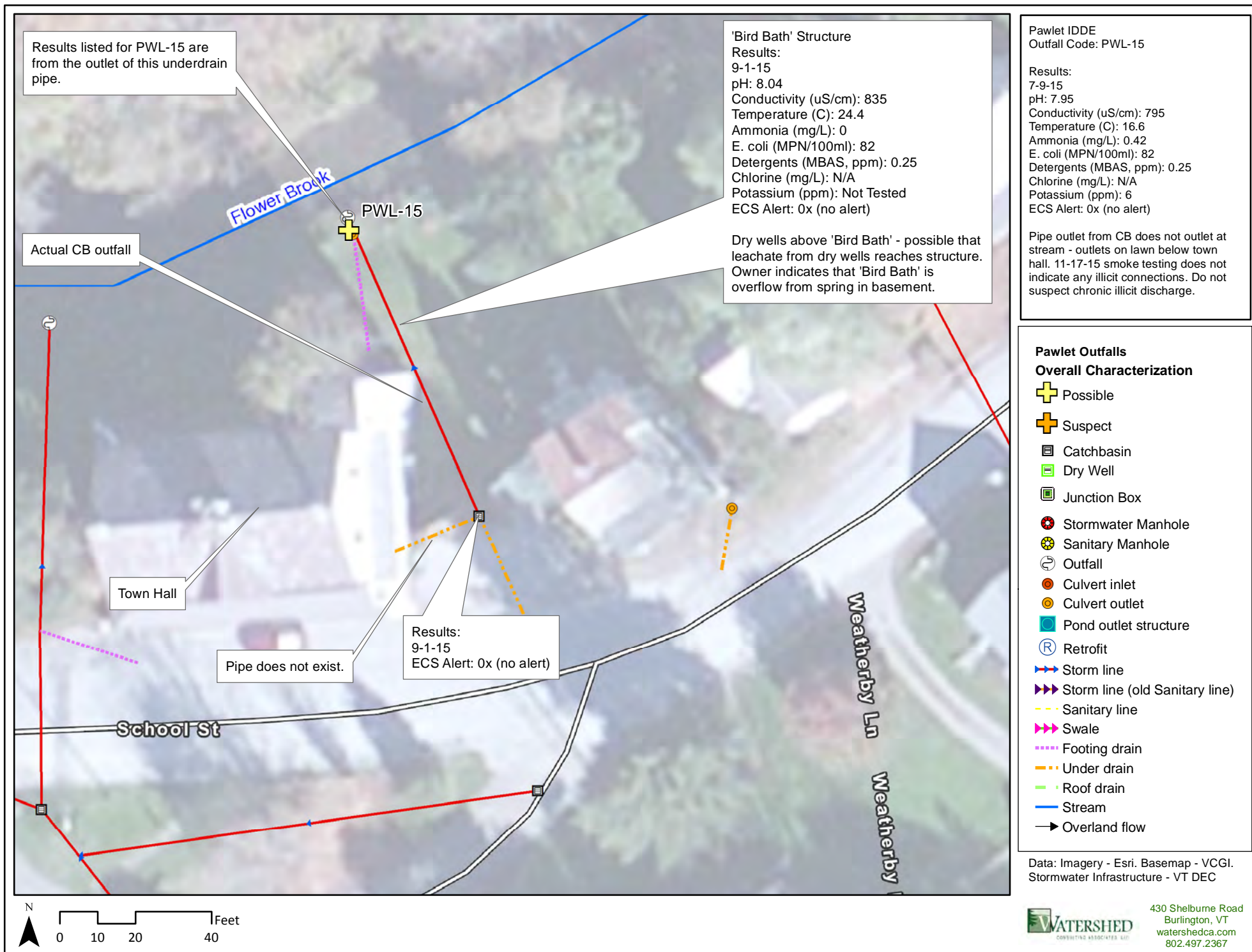




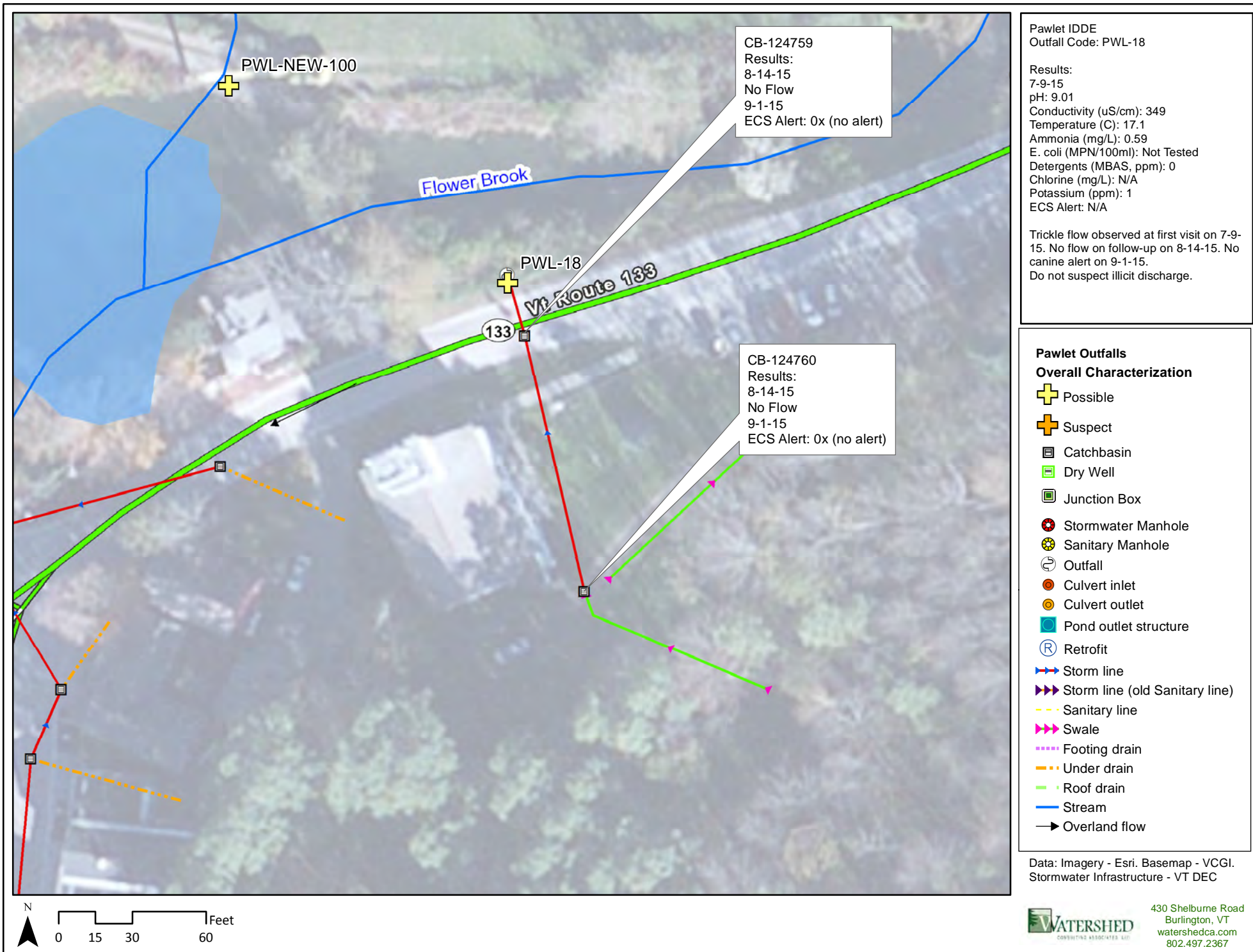




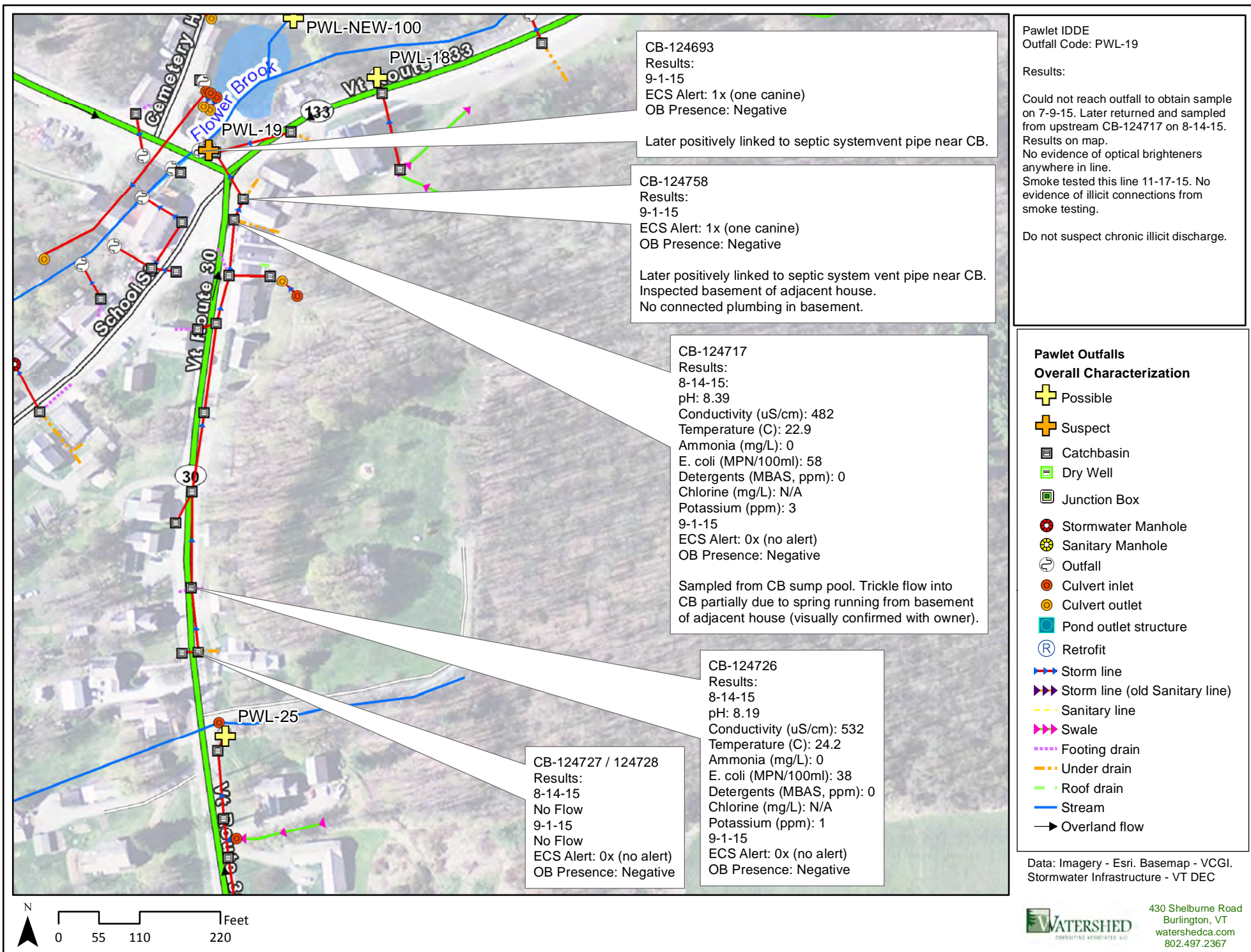
















Pawlet IDDE  
Outfall Code: PWL-22

Results:  
7-9-15  
pH: 8.56  
Conductivity (uS/cm): 525  
Temperature (C): 18.1  
Ammonia (mg/L): 0.71  
E. coli (MPN/100ml): Not Tested  
Detergents (MBAS, ppm): 0  
Chlorine (mg/L): N/A  
Potassium (ppm): 2  
ECS Alert: N/A

Trickle flow observed on 6-16-15. No flow observed on follow-up visit on 8-10-15. Canines did not alert on 9-1-15. Do not suspect illicit discharge.

#### Pawlet Outfalls

#### Overall Characterization

- Possible
- Suspect
- Catchbasin
- Dry Well
- Junction Box
- Stormwater Manhole
- Sanitary Manhole
- Outfall
- Culvert inlet
- Culvert outlet
- Pond outlet structure
- Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow

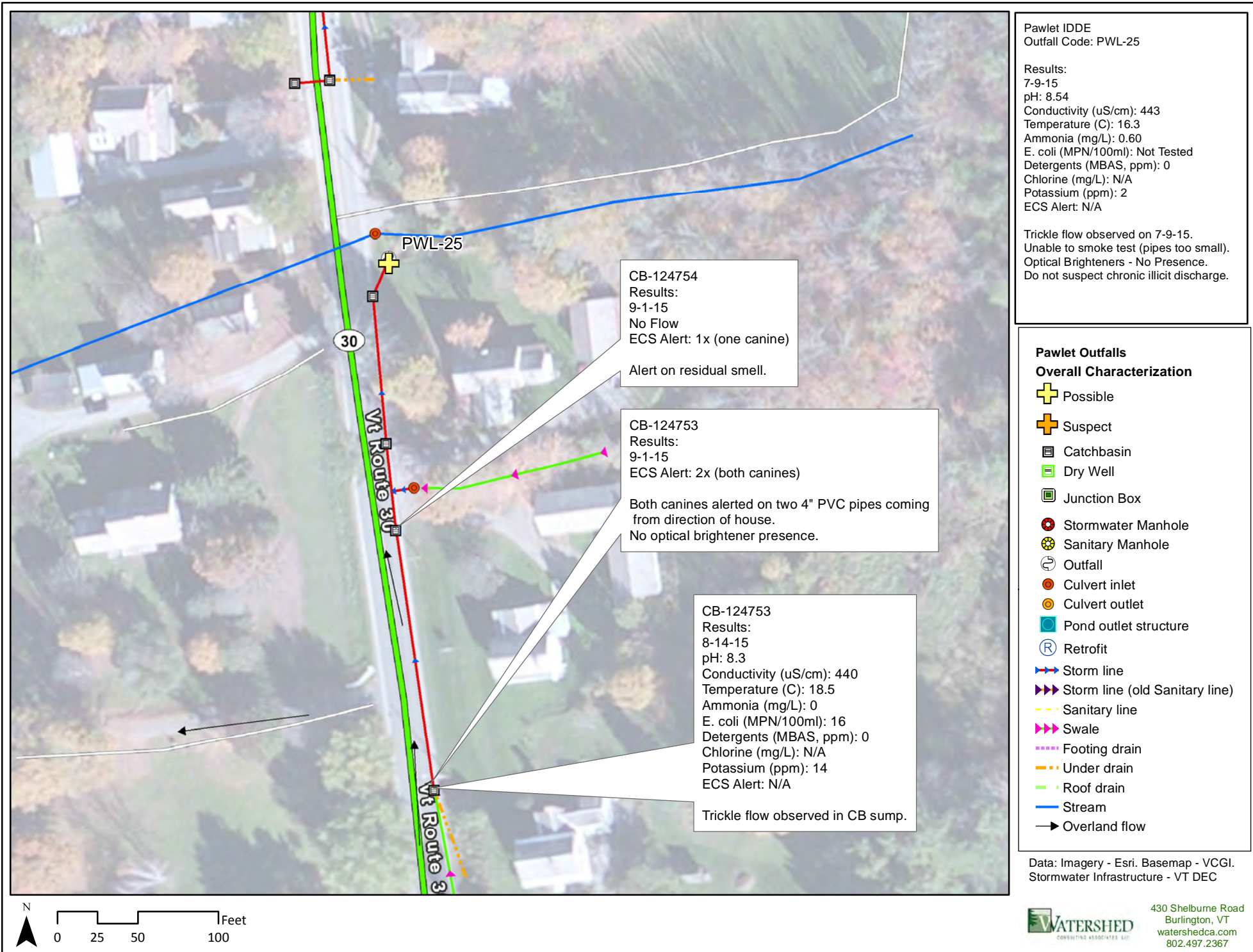
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Stormwater Infrastructure - VT DEC



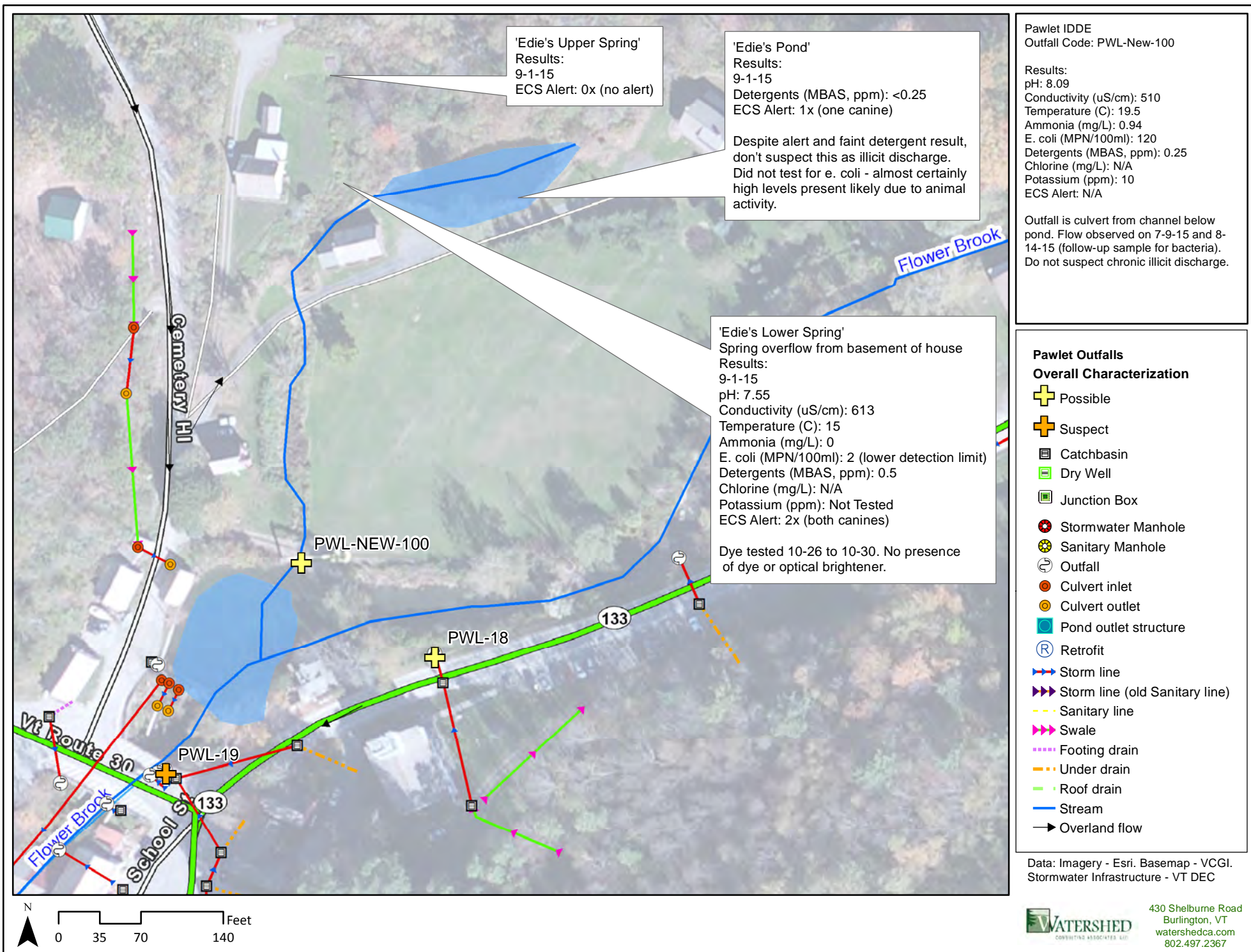
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Type of Infrastructure	ID/Description	K9 Logan Response	K9 Sable Response	K9 Logan Response 2nd Time	K9 Sable Response 2nd Time
WS	Field blank	N	N	N	N
WS	FB1	N	Y	N	N
WS	FB2	Y	N	N	Y
WS	FB3	Y	N	Y	N
WS	FB4	N	N	Y	N
WS	Field blank	N	N	N	N
WS	FB5	Y	N	Y	N
WS	Below FD	N	Y	N	Y
WS	Above FD	Y	Y	Y	N



Pawlet IDDE  
Outfall Code: Flower Brook Sampling  
9-1-15

In an attempt to bracket possible septic input to Flower Brook, samples were obtained by a stream walk. Samples were then brought back to the canine team for analysis. Samples were tested twice.

The only sample to obtain a hit in full agreement was the 'Above FD' sample.

Canines alerted independently on other samples, but rarely agreed.

#### Pawlet Outfalls Overall Characterization

- Possible
- Suspect
- Catchbasin
- Dry Well
- Junction Box
- Stormwater Manhole
- Sanitary Manhole
- Outfall
- Culvert inlet
- Culvert outlet
- Pond outlet structure
- Retrofit
- Storm line
- Storm line (old Sanitary line)
- Sanitary line
- Swale
- Footing drain
- Under drain
- Roof drain
- Stream
- Overland flow

Data: Imagery - Esri. Basemap - VCGI.  
Stormwater Infrastructure - VT DEC



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