

Stream Visual Assessment Protocol: Data Summary Sheet

Date: 04/11/15 Survey Party: LITU Team # 2 (Jeff P., Marc G., Jose P. & Dave K.)

Chapter: LONG ISLAND # 69 DEC Region: 1

County: SUFFOLK Township: HUNTINGTON

Watershed Code: LI Watershed Index # (HUC12): 020302010301 Stream: East Crab Meadow Creek (2.461)

Reach: Downstream of footbridge in Makamah Preserve, ≈ 900' upstream of Makamah Pond, e/o Makamah Road (House #36), ≈ 825' n/o Bruce Lane

Coord's: 40° 54' 48.3" N -73° 18' 46.5" W Drainage Area: ≈ 1.92 sq. mi.

Reach Length: 163.0 Ft. Active Floodplain Width: 138.0 Ft. Bankfull Width: 8.5 Ft.

Dominant Substrate: 5 (1 – 6) Channel Form: C (Aa+ - G) Valley Type: IX (I – XI)

Land Use in Drainage Area (%): Row crop % Hayland % Grazing % Forest %
 Confined animal feeding % Conservation reserve %
 Industrial/Commercial % Residential % Other %

<u>Item</u>	<u>Score</u>
<u><i>Geomorphic cluster</i></u>	
Channel Condition	<u>7</u>
Hydrologic Alteration	<u>10</u>
Deviation from W _{bkfl} (<u>25'</u>)	<u>7</u>
Bank Stability	<u>10</u>

<u>Item</u>	<u>Score</u>
<u><i>Fisheries cluster</i></u>	
Instream Fish Cover	<u>5</u>
Riparian Zone	<u>10</u>
Pool Status	<u>3</u>
Canopy	<u>10</u>
Fish Barriers	<u>5</u>

<u>Item</u>	<u>Score</u>
<u><i>Water quality cluster</i></u>	
Water Appearance	<u>10</u>
Nutrient Enrichment	<u>10</u>
Temperature Range	<u>10</u>
Manure Presence *	<u>-</u>

<u>Item</u>	<u>Score</u>
<u><i>Invertebrate cluster</i></u>	
Insect/Invertebrate Habitat	<u>7</u>
Riffle Embeddedness *	<u>5</u>
Macroinvertebrates *	<u>15</u>

* NOTE: These items are optional on the Stream Visual Assessment Protocol
 See protocol & field book summary sheet for specific criteria.

Average score for reach: **124 / 15 = 8.27**
(Total divided by number of elements scored)

Status:	<u>Poor</u> <small>< 6.0</small>	<u>Fair</u> <small>6.1 – 7.4</small>	<u>Good</u> <small>7.5 – 8.9</small>	<u>Excellent</u> <small>> 9.0</small>
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Reference reach candidate: Yes X No Possible

Additional studies needed: Temperature assessment, water quality assessment, macroinvertebrate analysis, electrofishing survey

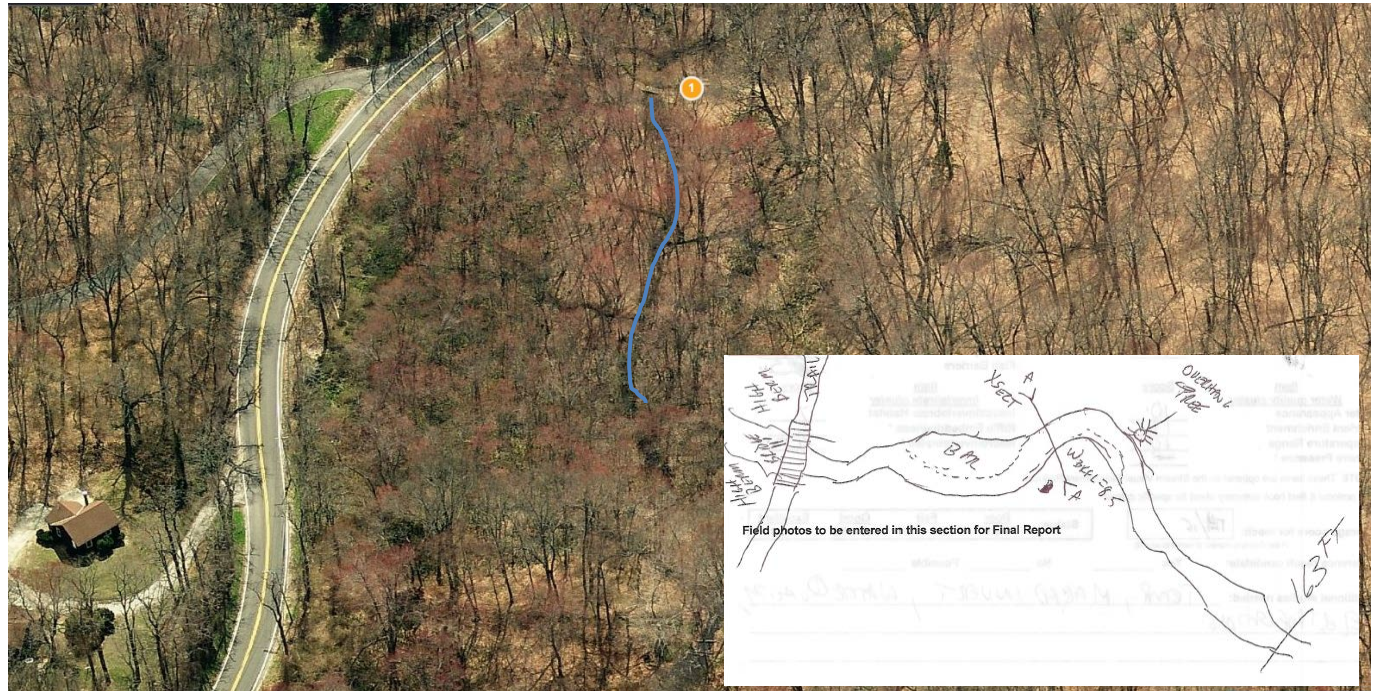
Summary of observed problems: Lack of pools, lack of deep water pools and low water levels in reach and all of stream. Also, some garbage along stream banks.

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Suspected causes: W/D ratio is too low, storm runoff from Makamah Road discharges sediments directly into stream
upstream of reach causing excessive sedimentation. If W/D ratio was improved, stream would be able to transport
additional sediment loading.

Options/Recommendations: _____

Field Sketch:



Stream Visual Assessment Protocol: Data Summary Sheet

LITU Team # West Branch (John Fischer, Peter Dubno, Margo Myles)
 Date: 04/11/15 Survey Party: Ken Burr and Robert Vasiluth

Chapter: LONG ISLAND # 69 DEC Region: 1

County: SUFFOLK Township: HUNTINGTON

Watershed Code: LI Watershed Index # (HUC12): 020302010301 Stream: West Crab Meadow Creek (1.847)

Reach: From Fuchs Pond Outlet Culvert 100 feet downstream

Coord's: 40° 54' 60" N -73° 19' 52" W Drainage Area: ≈ 14.99 sq. mi.

Reach Length: 100 Ft. Active Floodplain Width: 1200 Ft. Bankfull Width: 30 Ft.

Dominant Substrate: 4,5 (1 – 6) Channel Form: E (Aa+ - G) Valley Type: IX (I – XI)

Land Use in Drainage Area (%): Row crop % Hayland % Grazing % Forest %
 Confined animal feeding % Conservation reserve %
 Industrial/Commercial % Residential % Other %

<u>Item</u>	<u>Score</u>
<u><i>Geomorphic cluster</i></u>	
Channel Condition	<u>3</u>
Hydrologic Alteration	<u>7</u>
Deviation from W _{bkfl} (<u>25'</u>)	<u>1</u>
Bank Stability	<u>3</u>

<u>Item</u>	<u>Score</u>
<u><i>Fisheries cluster</i></u>	
Instream Fish Cover	<u>5</u>
Riparian Zone	<u>10</u>
Pool Status	<u>3</u>
Canopy	<u>7</u>
Fish Barriers	<u>3</u>

<u>Item</u>	<u>Score</u>
<u><i>Water quality cluster</i></u>	
Water Appearance	<u>10</u>
Nutrient Enrichment	<u>7</u>
Temperature Range	<u>10</u>
Manure Presence *	<u>N/A</u>

<u>Item</u>	<u>Score</u>
<u><i>Invertebrate cluster</i></u>	
Insect/Invertebrate Habitat	<u>10</u>
Riffle Embeddedness *	<u>3</u>
Macroinvertebrates *	<u>6</u>

* NOTE: These items are optional on the Stream Visual Assessment Protocol
 See protocol & field book summary sheet for specific criteria.

Average score for reach: 5.86
(Total divided by number of elements scored)

Status:	<u>Poor</u> <small>< 6.0</small>	<u>Fair</u> <small>6.1 – 7.4</small>	<u>Good</u> <small>7.5 – 8.9</small>	<u>Excellent</u> <small>> 9.0</small>
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Reference reach candidate: Yes No Possible x

Additional studies needed: Water temperature assessment, water quality assessment, macro-invertebrate analysis
Electrofishing survey.

Summary of observed problems: Lack of pools and low water level throughout reach.

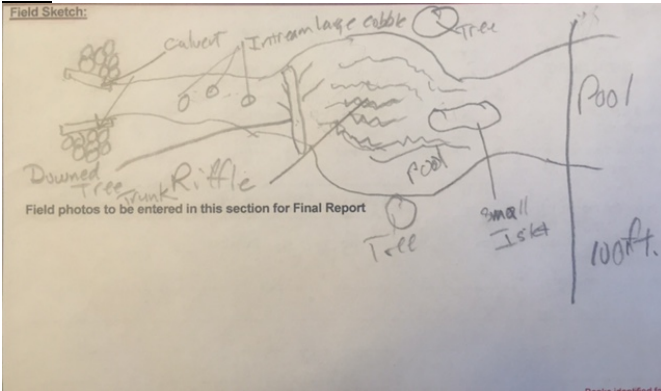
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Suspected causes: Width to Depth ratio is much too low.

Options/Recommendations: Increase width to depth ratio to improve load carrying capacity of the stream.

Field Sketch



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Field photos to be entered in this section for Final Report



Banks identified facing downstream.