



Field Information Form

Site/Sample ID: FCB4Q LatDD: 42.1591 LongDD: -88.1512

Stream Name and Location Description: Flint Creek Barrington

Field Parameter Collection Time: 0835 Sample Collection Time: 0835

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
7.87	20.8	8.05	1840

Total Discharge: 4.16 (cfs)
(Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: W 10-5 Outlook: 17.8 °C Clear Precipitation: Y or (N)

Stream Conditions

Flow: low Visual Turbidity: trace Stream Bed Conditions: Sandy/gravelly

Additional Comments: _____

Specific Comments: Sampled mid-stream mid-depth using
1L AG jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u> Date	<u>C. Duncan</u> Name	<u>Curtis Duncan</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>Sarah Tobin</u> Signature	<u>EMT</u> Company



Stream Discharge Measurement Form

Site ID: FCB4Q

Measurement Time Start at REW: 0845

Measurement Time Stop at LEW: 0850

Total Width: 21 (ft)

Total Area: 18.75 ^{8/13} (ft²)
17.90

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	0.55
B2	2	1	0.75
B3	3	1	0.90
B4	4	1	0.95
B5	5	1	1.10
B6	6	1	1.15 1.15
B7	7	1	1.00
B8	8	1	1.00
B9	9	1	0.95
B10	10	1	0.90
B11	11	1	0.90
B12	12	1	0.90
B13	13	1	0.90
B14	14	1	0.85
B15	15	1	0.90
B16	16	1	0.85
B17	17	1	0.85
B18	18	1	0.80
B19	19	1	0.70
B20	20	1	0.60
B21	21	1	0.40
B22			
B23			
B24			
B25			
B26			
B27			
B28			
B29			
B30			

COMMENTS: _____

08/13/2020 C. Duncan Curtis Duncan E.M.T.
 Date Name Signature Company
08/13/2020 S. Tobin Sean Tobin E.M.T.
 Date Name Signature Company



Stream Discharge Measurement Form

Site ID: FCB4Q

Measurement Time Start: 0850 Measurement Time Stop: 0900

Total Width in Cross-Section: 21 (ft)

Total Cross-Section Area: 17.90 (ft²) Reach Length between Detection Stations: 20 (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1	41.60	B4	83.04
B2	84.90	B5	61.66
B3	72.85		

Average Time: 68.81 (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}} = 0.29 \text{ ft/s}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)
 $(0.29 \cdot 0.8) (17.90)$

Total Discharge: 4.16 (cfs)

COMMENTS: Surface velocity measured using a float
traveling down stream over a measured distance

08/13/2020 C. Duncan C. Duncan EMT
Date Name Signature Company

08/13/2020 S. Tobin Sam Tobin EMT
Date Name Signature Company



Field Information Form

Site/Sample ID: FCBH1Q LatDD: 42.1544 LongDD: -88.1522
 Stream Name and Location Description: Flint Creek Berrington Hills 1
 Field Parameter Collection Time: 0740 Sample Collection Time: 0740

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
7.24	21.4	3.07	915

Total Discharge: 0.28 (cfs)
 (Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: WNW 10-5 Outlook: 17.8 °C Clear Precipitation: Y or N

Stream Conditions

Flow: Minimal Visual Turbidity: Mod Stream Bed Conditions: Muddy

Additional Comments: _____

Specific Comments: Sampled Mid-Stream Mid-depth
15mg IL ALs jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u> Date	<u>C. Duncar</u> Name	<u>Caitie Duncar</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>Sean Tobin</u> Signature	<u>EMT</u> Company



Stream Discharge Measurement Form

Site ID: FCBH1Q

Measurement Time Start at REW: 0750 Measurement Time Stop at LEW: 0755

Total Width: 11 (ft) Total Area: 8.10 (ft²)

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	0.45
B2	2	1	0.50
B3	3	1	0.65
B4	4	1	0.80
B5	5	1	0.95
B6	6	1	1.15
B7	7	1	1.05
B8	8	1	1.00
B9	9	1	0.75
B10	10	1	0.70
B11	11	1	0.10
B12			
B13			
B14			
B15			
B16			
B17			
B18			
B19			
B20			
B21			
B22			
B23			
B24			
B25			
B26			
B27			
B28			
B29			
B30			

COMMENTS: _____

08/13/2020 Patrick Duran 5/13/20 EMT Patrick Duran EMT
 Date Name Signature Company
08/13/2020 Sean Tobin Sean Tobin EMT
 Date Name Signature Company



Stream Discharge Measurement Form

Site ID: FCBH19

Measurement Time Start: 0800 Measurement Time Stop: 0815

Total Width in Cross-Section: 11 (ft)

Total Cross-Section Area: 8.10 (ft²) Reach Length between Detection Stations: 20 (ft) ⁵ _{8/13/20}

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1	<u>1:55</u>	B4	
B2	<u>1:55</u>	B5	
B3	<u>1:18</u>		

Average Time: 116.5 (s) over 5'

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}} = 0.04 \text{ ft/s}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)
 $(0.04 \cdot 0.8)(8.10)$

Total Discharge: 0.28 (cfs)

COMMENTS: Surface velocity measured using a float
traveling downstream over a measured distance
- only 2 float measurements able to be measured due to
extremely low flow
- 10 minutes spent attempting to complete final floats

08/13/2020 C. Duman Cathy Duman EMT
Date Name Signature Company
08/13/2020 S. Tobin Sean Tobin EMT
Date Name Signature Company



Field Information Form

Site/Sample ID: SCBH1Q LatDD: 42.1105 LongDD: -88.2116
 Stream Name and Location Description: Spring Creek Barrington Hills 1
 Field Parameter Collection Time: 1020 Sample Collection Time: 1020

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
7.68	19.5	1.75	1072

Total Discharge: 1.13 (cfs)
 (Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: ENE/6-5 Outlook: 27.2°C Clear Precipitation: Y or (N)

Stream Conditions

Flow: low Visual Turbidity: trace Stream Bed Conditions: Rocky Sandy

Additional Comments: _____

Specific Comments: Sampled Mid-Stream mid-depth
using 1L AB jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u>	<u>C. Duncan</u>	<u>Curtis Duncan</u>	<u>EMT</u>
Date	Name	Signature	Company
<u>08/13/2020</u>	<u>S. Tobin</u>	<u>Sean Tobin</u>	<u>EMT</u>
Date	Name	Signature	Company



Stream Discharge Measurement Form

Site ID: SCBH1Q

Measurement Time Start at REW: 1030 Measurement Time Stop at LEW: 1035

Total Width: 16 (ft) Total Area: 8.00 (ft²)

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	0.15
B2	2	1	0.40
B3	3	1	0.40
B4	4	1	0.40
B5	5	1	0.50
B6	6	1	0.55
B7	7	1	0.60
B8	8	1	0.60
B9	9	1	0.65
B10	10	1	0.65
B11	11	1	0.60
B12	12	1	0.60
B13	13	1	0.60
B14	14	1	0.60
B15	15	1	0.60
B16	16	1	0.90
B17			
B18			
B19			
B20			
B21			
B22			
B23			
B24			
B25			
B26			
B27			
B28			
B29			
B30			

COMMENTS: _____

08/13/2020 C. Duncan Caitlin Duncan E.M.T.
 Date Name Signature Company
08/13/2020 S. Tobin Sean Tobin E.M.T.
 Date Name Signature Company



Stream Discharge Measurement Form

Site ID: SCBH1Q

Measurement Time Start: 1040 Measurement Time Stop: 1055

Total Width in Cross-Section: 16 (ft)

Total Cross-Section Area: 8.00 (ft²) Reach Length between Detection Stations: 20 (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1	103.34	B4	120.60
B2	102.60	B5	113.21
B3	125.79		

Average Time: 113.11 (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}} = 0.18 \text{ ft/s}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)
 $(0.18 \cdot 0.8) (8.00)$

Total Discharge: 1.13 (cfs)

COMMENTS: Surface velocity measured using a float traveling downstream over a measured distance

08/13/2020 C. Duncan Curtis Duncan EMT
 Date Name Signature Company
08/13/2020 S. Tobin Seamus Tobin EMT
 Date Name Signature Company



Field Information Form

Site/Sample ID: FCLB30 LatDD: 42.1996 LongDD: -88.1670

Stream Name and Location Description: Flint Creek Lake Barrington 3

Field Parameter Collection Time: 1135 Sample Collection Time: 1135

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
8.08	25.0	7.33	1214

Total Discharge: 3.41 (cfs)
(Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: E/5-10 Outlook: 27.8 °C Clear Precipitation: Y or N

Stream Conditions

Flow: low Visual Turbidity: trace Stream Bed Conditions: Rocky Sandy

Additional Comments: _____

Specific Comments: Sampled mid-stream mid-depth using
1L AG jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u> Date	<u>C. Duncan</u> Name	<u>Curtis Duncan</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>Sam Tobin</u> Signature	<u>EMT</u> Company

82°F



Stream Discharge Measurement Form

Site ID: FCLB3Q

Measurement Time Start at REW: 1140 Measurement Time Stop at LEW: 1150

Total Width: 26 (ft) Total Area: 30.65 (ft²)

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26
20

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	0.50
B2	2	1	0.50
B3	3	1	0.70
B4	4	1	0.80
B5	5	1	0.85
B6	6	1	0.90
B7	7	1	1.00
B8	8	1	1.05
B9	9	1	1.10
B10	10	1	1.15
B11	11	1	1.25
B12	12	1	1.35
B13	13	1	1.40
B14	14	1	1.45
B15	15	1	1.50
B16	16	1	1.55
B17	17	1	1.60
B18	18	1	1.60
B19	19	1	1.60
B20	20	1	1.60
B21	21	1	1.60
B22	22	1	1.50
B23	23	1	1.35
B24	24	1	1.10
B25	20	1	0.95
B26	26	1	0.90
B27			
B28			
B29			
B30			

COMMENTS: _____

08/13/2020 C. Duncanson
Date Name

[Signature]
Signature

EMT
Company

08/13/2020 S. Tobin
Date Name

[Signature]
Signature

EMT
Company



Stream Discharge Measurement Form

Site ID: FCLB3Q

Measurement Time Start: 1155 Measurement Time Stop: 1210

Total Width in Cross-Section: 26 (ft)

Total Cross-Section Area: 30.65 (ft²) Reach Length between Detection Stations: 20 (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1	128.45	B4	108.50
B2	129.77	B5	176.86
B3	177.17		

Average Time: 143.75 (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}} = 0.14 \text{ ft/s}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)
 $(0.14 \cdot 0.8)(30.65)$

Total Discharge: 3.41 (cfs)

COMMENTS: Surface velocity measured using a float traveling downstream over a measured distance

08/13/2020 L. Duncan Loretta Duncan EMT
Date Name Signature Company

08/13/2020 S. Tobin Sarah Tobin EMT
Date Name Signature Company



Field Information Form

Site/Sample ID: SCBH26 LatDD: 42.1543 LongDD: -88.2116

Stream Name and Location Description: Spring Creek Barrington Hills 2

Field Parameter Collection Time: 0940 Sample Collection Time: 0940

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
7.57	23.5	2.97	836

Total Discharge: 0 (cfs)
(Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: S/O-5 Outlook: 22.8°C Clear Precipitation: Y or (N)

Stream Conditions

Flow: Nare Visual Turbidity: Trace Stream Bed Conditions: Silty/Rocky

Additional Comments: _____

Specific Comments: Sampled Mid-Stream mid-depth using 1L AB jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u> Date	<u>C. Duran</u> Name	<u>[Signature]</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>[Signature]</u> Signature	<u>EMT</u> Company



Stream Discharge Measurement Form

Site ID: SCBH29

Measurement Time Start at REW: 0945 Measurement Time Stop at LEW: 0955

Total Width: 63 (ft) Total Area: 137.40 (ft²)

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	3	3	1.5
B2	6	3	1.55
B3	9	3	1.65
B4	12	3	2.45
B5	15	3	2.95
B6	18	3	2.60
B7	21	3	2.40
B8	24	3	2.35
B9	27	3	2.40
B10	30	3	2.45
B11	33	3	2.40
B12	36	3	2.45
B13	39	3	2.60
B14	42	3	2.50
B15	45	3	2.40
B16	48	3	2.50
B17	51	3	2.45
B18	54	3	2.40
B19	57	3	2.20
B20	60	3	1.10
B21	63	3	0.50
B22	66	3	0.20
B23	69	3	0
B24			
B25			
B26			
B27			
B28			
B29			
B30			

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54
8/13/20
8/13/20

COMMENTS: _____

08/13/2020 C. Duncan [Signature] EMT
Date Name Signature Company

08/13/2020 S. Tobin [Signature] EMT
Date Name Signature Company



Stream Discharge Measurement Form

Site ID: SCBH 29

Measurement Time Start: _____ Measurement Time Stop: _____

Total Width in Cross-Section: 63 (ft)

Total Cross-Section Area: 137.40 (ft²) Reach Length between Detection Stations: _____ (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1		B4	
B2		B5	
B3			

No Flow

Average Time: 0 (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)

Total Discharge: 0 (cfs)

COMMENTS: No surface flow present @ this location

08/13/2020 C. Dineen C. Dineen EMT
Date Name Signature Company

08/13/2020 S. Tobin Sean Tobin EMT
Date Name Signature Company



Field Information Form

Site/Sample ID: FCLB4Q LatDD: 42.2007 LongDD: -88.1660

Stream Name and Location Description: Flint Creek Lake Barrington 4

Field Parameter Collection Time: 1220 Sample Collection Time: 1220

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
8.51	24.4	595	839

Total Discharge: 0 (cfs)
(Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: E/5-10 Outlook: 27.8°C Clear Precipitation: Y or N

Stream Conditions

Flow: None Visual Turbidity: Trace Stream Bed Conditions: Muddy

Additional Comments: _____

Specific Comments: Sampled Mid-Stream Mid-depth
using 1L A&J jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u> Date	<u>C. Duncan</u> Name	<u>C. Duncan</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tolini</u> Name	<u>S. Tolini</u> Signature	<u>EMT</u> Company

82°F



Stream Discharge Measurement Form

Site ID: FC L B 4 Q

Measurement Time Start at REW: 1225 Measurement Time Stop at LEW: 1235

Total Width: ^{slip clip} 24 (ft) Total Area: 21.40 (ft²)

30
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Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	0.60
B2	2	1	0.80
B3	3	1	0.80
B4	4	1	0.90
B5	5	1	0.85
B6	6	1	0.90
B7	7	1	1.20
B8	8	1	0.90
B9	9	1	1.10
B10	10	1	1.10
B11	11	1	1.20
B12	12	1	1.20
B13	13	1	1.30
B14	14	1	1.35
B15	15	1	1.40
B16	16	1	1.30
B17	17	1	1.20
B18	18	1	1.10
B19	19	1	0.90
B20	20	1	0.70
B21	21	1	0.60
B22			
B23			
B24			
B25			
B26			
B27			
B28			
B29			
B30			

22

COMMENTS: _____

<u>08/13/2020</u> Date	<u>C. Duncan</u> Name	<u>[Signature]</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>[Signature]</u> Signature	<u>EMT</u> Company



Stream Discharge Measurement Form

Site ID: FCLB4Q

Measurement Time Start: _____ Measurement Time Stop: _____

Total Width in Cross-Section: 21 (ft)

Total Cross-Section Area: 21.40 (ft²) Reach Length between Detection Stations: _____ (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1		B4	
B2		B5	
B3			

No Flow

Average Time: _____ (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)

Total Discharge: 0 (cfs)

COMMENTS: No surface flow present @ this location

08/13/2020
Date

C. Duncan
Name

[Signature]
Signature

EMT
Company

08/13/2020
Date

S. Tobin
Name

[Signature]
Signature

EMT
Company



Field Information Form

Site/Sample ID: FCLB5Q LatDD: 42.2114 LongDD: -88.1735

Stream Name and Location Description: Flint Creek Lake Barrington 5

Field Parameter Collection Time: 1255 Sample Collection Time: 1255

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
8.43	26.3	10.16	1162

Total Discharge: 7.33 (cfs)
(Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: ENE/5-10 Outlook: 27.8°C Clear Precipitation: Y or N

Stream Conditions

Flow: Low Visual Turbidity: Trace Stream Bed Conditions: Rocky Sandy

Additional Comments: _____

Specific Comments: Sampled mid-stream mid-depth

using 1L AG jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

08/13/2020 C. Duncan Catherine Duncan EMT
Date Name Signature Company

08/13/2020 S. Tobin Susan Tobin EMT
Date Name Signature Company

82°C



Stream Discharge Measurement Form

Site ID: FCLB5Q

Measurement Time Start at REW: 1305 Measurement Time Stop at LEW: 1310

Total Width: 28 (ft) Total Area: 29.25 (ft²)

52

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	0.60
B2	2	1	0.80
B3	3	1	0.85
B4	4	1	0.90
B5	5	1	0.95
B6	6	1	1.00
B7	7	1	1.00
B8	8	1	1.05
B9	9	1	1.05
B10	10	1	1.10
B11	11	1	1.15
B12	12	1	1.20
B13	13	1	1.30
B14	14	1	1.25
B15	15	1	1.15
B16	16	1	1.10
B17	17	1	1.20
B18	18	1	1.10
B19	19	1	1.10
B20	20	1	1.10
B21	21	1	1.10
B22	22	1	1.10
B23	23	1	1.10
B24	24	1	1.00
B25	25	1	1.05
B26	26	1	1.10
B27	27	1	1.00
B28	28	1	0.85
B29			
B30			

COMMENTS: _____

<u>08/13/2020</u> Date	<u>C. Dincer</u> Name	<u>Colin Dincer</u> Signature	<u>EMI</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>Sean Tobin</u> Signature	<u>EMI</u> Company



Stream Discharge Measurement Form

Site ID: FCLB5Q

Measurement Time Start: 1315 Measurement Time Stop: 1325

Total Width in Cross-Section: 28 (ft)

Total Cross-Section Area: 29.25 (ft²) Reach Length between Detection Stations: 20 (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1	120.72	B4	40.40
B2	58.70	B5	47.33
B3	52.10		

Average Time: 63.85 (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}}$ = 0.31

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)
(0.31 · 0.8)(29.25)

Total Discharge: 7.33 (cfs)

COMMENTS: Surface velocity measured using a float traveling
down stream over a measured distance

08/13/2020 L. Dineen Lucretia Dineen EMT
Date Name Signature Company

08/13/2020 S. Tobin Sara Tobin EMT
Date Name Signature Company



Field Information Form

Site/Sample ID: SCFRG3Q LatDD: 42.1913 LongDD: -88.2367

Stream Name and Location Description: Spring Creek Fox River Grove 3

Field Parameter Collection Time: 1405 Sample Collection Time: 1405

Field Parameters

pH	Temperature (°C)	D.O. (mg/L)	Conductance (µmhos/cm)
8.34	25.0	8.63	754

Total Discharge: 16.00 (cfs)
(Refer to corresponding Stream Discharge Measurement Form for additional flow information)

Weather Conditions

Direction/Speed: ENE 5-10 Outlook: 27.8 °C Clear Precipitation: Y or N 3

Stream Conditions

Flow: Moderate Visual Turbidity: Trace Stream Bed Conditions: Gravelly/Sandy

Additional Comments: _____

Specific Comments: Sampled mid-stream mid-depth using 1L AB jar

I certify that sampling procedures were in accordance with applicable federal, state, and EMT protocols:

<u>08/13/2020</u> Date	<u>L. Ducau</u> Name	<u>[Signature]</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>[Signature]</u> Signature	<u>EMT</u> Company

82°F



Stream Discharge Measurement Form

Site ID: SCFRG30

Measurement Time Start at REW: 1410

Measurement Time Stop at LEW: 1415

Total Width: 17 (ft)

Total Area: 22.90 (ft²)

3

Point	Distance From Initial Point (ft)	Width (ft)	Depth (ft)
B1	1	1	1.80
B2	2	1	1.85
B3	3	1	1.90
B4	4	1	1.95
B5	5	1	2.00
B6	6	1	2.00
B7	7	1	2.00
B8	8	1	2.00
B9	9	1	1.80
B10	10	1	1.50
B11	11	1	1.20
B12	12	1	0.90
B13	13	1	0.60
B14	14	1	0.50
B15	15	1	0.40
B16	16	1	0.30
B17	17	1	0.20
B18			
B19			
B20			
B21			
B22			
B23			
B24			
B25			
B26			
B27			
B28			
B29			
B30			

COMMENTS: _____

08/13/2020
Date

C. Duran
Name

[Signature]
Signature

EMT
Company

08/13/2020
Date

S. Tobin
Name

[Signature]
Signature

EMT
Company



Stream Discharge Measurement Form

Site ID: SCFR63Q

Measurement Time Start: 1420 Measurement Time Stop: 1425

Total Width in Cross-Section: 17 (ft)

Total Cross-Section Area: 22.90(ft²) Reach Length between Detection Stations: 20 (ft)

Float-Velocity/area Method

Trial #	Time (seconds)	Trial #	Time (seconds)
B1	24.18	B4	24.23
B2	20.96	B5	23.45
B3	15.50		

Average Time: 21.66 (s)

Average surface velocity = $\frac{\text{Reach Length between Detection Stations}}{\text{Average time}} = 0.87 \text{ ft/s}$

Velocity correction factor = 0.8

Total Discharge (cfs) = (Average surface velocity · 0.8)(Total Cross Section Area)
 $(0.87 \cdot 0.8) (22.90)$

Total Discharge: 16.00 (cfs)

COMMENTS: Surface velocity measured using a float over a measured distance down stream

<u>08/13/2020</u> Date	<u>C. Duncan</u> Name	<u>Catherine Duncan</u> Signature	<u>EMT</u> Company
<u>08/13/2020</u> Date	<u>S. Tobin</u> Name	<u>Sarah Tobin</u> Signature	<u>EMT</u> Company