# Attachment 1: Machado Lake Nutrient TMDL Year 1 Wet Event 1 Monitoring Site Field Logs

Event called at 0822 on 12/13/12 due to forecast of clear conditions.

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Outlet - Eastvale Rd/ Palos Verdes Dr**

Site Id: **1O_EAST** Sample Region: **LWA**

Personnel: Bryant A, Greg R, John L Date: **12/13/2012** Time: 0620 Pictures: 2

**GPS Reference**

Latitude: **33.7809**

Longitude: **-118.3506**

**GPS Readings**

## Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(ºC) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| | | | | | | |

## Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (ºC) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | NA | NA | K |

| % Bank Vegetation Left Bank | % Bank Vegetation Right Bank | % Shading |
|---|---|---|
| NA | NA | NA |

| | |
|---|---|
| **Weather** | Broken sky cloud coverage |
| **Water Color** | NA |
| **Instream Activity** | NA |
| **Odor** | None |
| **Foreign Matter** | None |

## Flow Data

**Flow Start Time** **End Time**

| | Path# __ | Path# __ |
|---|---|---|
| **Width at TOP (ft)** | | |
| **Width at MIDDLE (ft)** | | |
| **Width at BOTTOM (ft)** | | |
| **Depth at 25% at TOP (ft in)** | | |
| **Depth at 50% at TOP (ft in)** | | |
| **Depth at 75% at TOP (ft in)** | | |
| **Depth at 25% at MIDDLE (ft in)** | | |
| **Depth at 50% at MIDDLE (ft in)** | | |
| **Depth at 75% at MIDDLE (ft in)** | | |
| **Depth at 25% at BOTTOM (ft in)** | | |
| **Depth at 50% at BOTTOM (ft in)** | | |
| **Depth at 75% at BOTTOM (ft in)** | | |
| **Distance marked-off (ft)** | | |
| **Flow time #1 (sec)** | | |
| **Flow time #2 (sec)** | | |
| **Flow time #3 (sec)** | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

**Reason if flow not measured:**

No measurable flow.

## Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

Dtemp but flow insufficient to be measured or for field parameters to be measured.

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Outlet - Van Deene Ave/ 228th St**

Site Id: **3O VERSEP** Sample Region: **LWA**

Personnel: Greg R, John L, Bryant Date: **12/13/2012** Time: 0459 Pictures:

**GPS Reference** Latitude: **33.8258** Longitude: **-118.2878**

**GPS Readings**

### Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| 0459 | 14.69 | 7.85 | 9.53 | 93.6 | 204.2 | 25.7 |

### Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | |

**% Bank Vegetation**

| Left Bank | Right Bank | % Shading |
|---|---|---|
| | | |

| | |
|---|---|
| **Weather** | Slightly Overcast |
| **Water Color** | Brownish green |
| **Instream Activity** | |
| **Odor** | None |
| **Foreign Matter** | |

### Flow Data

**Flow Start Time** 0505 **End Time** 0510

| | Path# __ | Path# __ |
|---|---|---|
| **Width at TOP (ft)** | | |
| **Width at MIDDLE (ft)** | | |
| **Width at BOTTOM (ft)** | | |
| **Depth at 25% at TOP (ft in)** | | |
| **Depth at 50% at TOP (ft in)** | | |
| **Depth at 75% at TOP (ft in)** | | |
| **Depth at 25% at MIDDLE (ft in)** | | |
| **Depth at 50% at MIDDLE (ft in)** | | |
| **Depth at 75% at MIDDLE (ft in)** | | |
| **Depth at 25% at BOTTOM (ft in)** | | |
| **Depth at 50% at BOTTOM (ft in)** | | |
| **Depth at 75% at BOTTOM (ft in)** | | |
| **Distance marked-off (ft)** | 30 ft | |
| **Flow time #1 (sec)** | 20.51 sec | |
| **Flow time #2 (sec)** | 12.36 sec | |
| **Flow time #3 (sec)** | 14.89 sec | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

**Reason if flow not measured:**

### Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

0505→Estimated Depth ~ 0.25 ft; Estimated Width ~ 34 ft

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Inlet - Ashbridge Dr/ Pasatiempo Ln**

Site Id: **3I ASHB** Sample Region: **LWA**

Personnel: Greg R, John L, Bryant A Date: **12/13/2012** Time: 0522 Pictures: 2

**GPS Reference** Latitude: **33.8082** Longitude: **-118.2954**

**GPS Readings**

### Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| 0522 | 15.51 | 7.82 | 9.63 | 96.4 | 237.3 | 11.9 |

### Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | |

**% Bank Vegetation**

| Left Bank | Right Bank | % Shading |
|---|---|---|
| | | |

| | |
|---|---|
| **Weather** | Overcast |
| **Water Color** | Brownish/Clear |
| **Instream Activity** | |
| **Odor** | None |
| **Foreign Matter** | |

### Flow Data

**Flow Start Time** **End Time**

| | Path# __ | Path# __ |
|---|---|---|
| **Width at TOP (ft)** | | |
| **Width at MIDDLE (ft)** | | |
| **Width at BOTTOM (ft)** | | |
| **Depth at 25% at TOP (ft in)** | | |
| **Depth at 50% at TOP (ft in)** | | |
| **Depth at 75% at TOP (ft in)** | | |
| **Depth at 25% at MIDDLE (ft in)** | | |
| **Depth at 50% at MIDDLE (ft in)** | | |
| **Depth at 75% at MIDDLE (ft in)** | | |
| **Depth at 25% at BOTTOM (ft in)** | | |
| **Depth at 50% at BOTTOM (ft in)** | | |
| **Depth at 75% at BOTTOM (ft in)** | | |
| **Distance marked-off (ft)** | | |
| **Flow time #1 (sec)** | | |
| **Flow time #2 (sec)** | | |
| **Flow time #3 (sec)** | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

**Reason if flow not measured:**

### Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

→Estimated width ~ 18 in; Estimated Depth ~ 0.2 ft

0522

↳Estimated velocity ~ 3 ft/s

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Inlet - Normandie Ave/ Pasatiempo Ln**

Site Id: **3I NORMP** Sample Region: **LWA**

Personnel: Greg R, John L, Bryant A Date: **12/13/2012** Time: 0541 Pictures: 3

**GPS Reference** Latitude: **33.8058** Longitude: **-118.2989**

**GPS Readings**

## Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| 0541 | 16.27 | 7.79 | 9.25 | 93.7 | 223.0 | 25.0 |

## Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | |

| % Bank Vegetation Left Bank | % Bank Vegetation Right Bank | % Shading |
|---|---|---|
| | | |

| | |
|---|---|
| **Weather** | Overcast |
| **Water Color** | Greenish Brown |
| **Instream Activity** | |
| **Odor** | None |
| **Foreign Matter** | Leaf Litter, Trash |

## Flow Data

**Flow Start Time** 0541 **End Time** 0545

| | Path# 1 | Path# __ |
|---|---|---|
| **Width at TOP (ft)** | | |
| **Width at MIDDLE (ft)** | | |
| **Width at BOTTOM (ft)** | | |
| **Depth at 25% at TOP (ft in)** | | |
| **Depth at 50% at TOP (ft in)** | | |
| **Depth at 75% at TOP (ft in)** | | |
| **Depth at 25% at MIDDLE (ft in)** | | |
| **Depth at 50% at MIDDLE (ft in)** | | |
| **Depth at 75% at MIDDLE (ft in)** | | |
| **Depth at 25% at BOTTOM (ft in)** | | |
| **Depth at 50% at BOTTOM (ft in)** | | |
| **Depth at 75% at BOTTOM (ft in)** | | |
| **Distance marked-off (ft)** | 30 | |
| **Flow time #1 (sec)** | 17.30 sec | |
| **Flow time #2 (sec)** | 14.00 sec | |
| **Flow time #3 (sec)** | 15.01 sec | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

**Reason if flow not measured:**

## Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

0541-> Estimated Depth ~ 0.3 ft; Width ~ 34.1 ft

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Outlet - Academy Dr/ Palos Verdes Dr**

Site Id: **1O ACAD** Sample Region: **LWA**

Personnel: Greg R, John L, Bryant A Date: **12/13/2012** Time: _____ Pictures: _____

**GPS Reference** Latitude: **33.7831** Longitude: **-118.3537**

**GPS Readings** _____

## Samples Collected

☐ Intermediate container used to transfer water to sample bottles?

| Sample ID | Time | Sample Depth (ft) | Analytes | Bottle Count | Notes |
|---|---|---|---|---|---|
| ☒ MLMRP-003-1O_ACAD-01 | 0822 | | Water Composite | 1 | MS/MSD |

## Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| 327 | 16.35 | 7.93 | 9.61 | 97.6 | 391.8 | T 10.0 |

## Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | K |

| % Bank Vegetation Left Bank | % Bank Vegetation Right Bank | % Shading |
|---|---|---|
| | | |

| | |
|---|---|
| **Weather** | overcast |
| **Water Color** | clear |
| **Instream Activity** | Rac |
| **Odor** | none |
| **Foreign Matter** | |

## Flow Data

**Flow Start Time** _____ **End Time** _____

| | Path# __ | Path# __ |
|---|---|---|
| **Width at TOP (ft)** | | |
| **Width at MIDDLE (ft)** | | |
| **Width at BOTTOM (ft)** | | |
| **Depth at 25% at TOP (ft in)** | | |
| **Depth at 50% at TOP (ft in)** | | |
| **Depth at 75% at TOP (ft in)** | | |
| **Depth at 25% at MIDDLE (ft in)** | | |
| **Depth at 50% at MIDDLE (ft in)** | | |
| **Depth at 75% at MIDDLE (ft in)** | | |
| **Depth at 25% at BOTTOM (ft in)** | | |
| **Depth at 50% at BOTTOM (ft in)** | | |
| **Depth at 75% at BOTTOM (ft in)** | | |
| **Distance marked-off (ft)** | | |
| **Flow time #1 (sec)** | | |
| **Flow time #2 (sec)** | | |
| **Flow time #3 (sec)** | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

**Reason if flow not measured:**

## Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

First sample drawn at 2347

Flow estimation at 0327 on 12/13/12 → 0.075 ft depth, ~~0.5~~ 0.75 ft width

Original Criteria: 7 L, 10 hr, → 175 mL per 15 min

- Selected Criteria: 175 mL, 40 cycles, 15 min

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Outlet - Vermont Ave/ Sepulveds Blvd**
Site Id: **3O_VAND** Sample Region: **LWA**
Personnel: Bryant A.Greg R.John L. Date: **12/13/2012**

GPS Reference / GPS Readings
Latitude: **33.8083**
Longitude: **-118.2883**
Time: 04:00 Pictures: a total of 12

### Samples Collected

☒ Intermediate container used to transfer water to sample bottles?

| Sample ID | Time | Sample Depth (ft) | Analytes | Bottle Count | Notes |
|---|---|---|---|---|---|
| ☑ MLMRP-003-3O_VAND-02 | 0957 | | Water Composite | 1 | |

### Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| 04:16 | 15.43 | 7.84 | 9.18 | 91.6 | 1758 | 34.1 |

### Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | 0% | ~40% | K |

| % Bank Vegetation Left Bank | % Bank Vegetation Right Bank | % Shading |
|---|---|---|
| 0 | 0 | 0 |

| | |
|---|---|
| Weather | SPRINGLING RAIN |
| Water Color | GREEN |
| Instream Activity | none |
| Odor | none |
| Foreign Matter | |

### Flow Data

Flow Start Time: 0430 End Time: 0434

| | Path# 1 | Path# __ |
|---|---|---|
| Width at TOP (ft) | 2.75' | |
| Width at MIDDLE (ft) | 2.75' | |
| Width at BOTTOM (ft) | 2.75' | |
| Depth at 25% at TOP (ft in) | 0.35' | |
| Depth at 50% at TOP (ft in) | 0.35' | |
| Depth at 75% at TOP (ft in) | 0.35' | |
| Depth at 25% at MIDDLE (ft in) | 0.35' | |
| Depth at 50% at MIDDLE (ft in) | 0.35' | |
| Depth at 75% at MIDDLE (ft in) | 0.35' | |
| Depth at 25% at BOTTOM (ft in) | 0.35' | |
| Depth at 50% at BOTTOM (ft in) | 0.35' | |
| Depth at 75% at BOTTOM (ft in) | 0.35' | |
| Distance marked-off (ft) | 25 | |
| Flow time #1 (sec) | 28.63sec | |
| Flow time #2 (sec) | | |
| Flow time #3 (sec) | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

Reason if flow not measured:

### Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

First sample drawn at 2235 on 12/12/12

0430-7 Estimated depth. 0.35'; Battery replaced at 0430 on 12/13/12

↳ Estimated width 2.75ft.

5 L, 10 hr → 125 mL every 15 min

40 cycles (Original Criteria)

Selected Criteria: 15 min, 50 cycles, 125 mL

Machado Lake Nutient TMDL Sampling

# Sampling Data Log Sheet

Site: **Field Blanks** | GPS Reference | GPS Readings

Site Id: **TAHOE** Sample Region: **LWA** Latitude: | Longitude:

Personnel: LWA + JOHN LUSITANA Date: 12/13/2012 Time: 0840 Pictures:

## Samples Collected

☐ Intermediate container used to transfer water to sample bottles?

| Sample ID | Time | Sample Depth (ft) | Analytes | Bottle Count | Notes |
|---|---|---|---|---|---|
| ☒ MLMRP-003-TAHOE-03 | 0850 | DTC | Diss Phosphorus, OrthoP, Nitrate, Nitrite | 1 | Field Blank |
| ☒ MLMRP-003-TAHOE-04 | 0850 | | Total Kjeldahl Nitrogen | 1 | Field Blank |
| ☒ MLMRP-003-TAHOE-05 | 0850 | ↓ | Ammonia-N, Total Phosphorus | 1 | Field Blank |

## Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| | | | | | | |

## Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | |

% Bank Vegetation: Left Bank | Right Bank

% Shading

| | |
|---|---|
| Weather | BROKEN SKY - W/ SUN |
| Water Color | N/A |
| Instream Activity | N/A |
| Odor | N/A |
| Foreign Matter | N/A |

## Flow Data

Flow Start Time | End Time

| | Path# __ | Path# __ |
|---|---|---|
| Width at TOP (ft) | | |
| Width at MIDDLE (ft) | | |
| Width at BOTTOM (ft) | | |
| Depth at 25% at TOP (ft in) | | |
| Depth at 50% at TOP (ft in) | | |
| Depth at 75% at TOP (ft in) | | |
| Depth at 25% at MIDDLE (ft in) | | |
| Depth at 50% at MIDDLE (ft in) | | |
| Depth at 75% at MIDDLE (ft in) | | |
| Depth at 25% at BOTTOM (ft in) | | |
| Depth at 50% at BOTTOM (ft in) | | |
| Depth at 75% at BOTTOM (ft in) | | |
| Distance marked-off (ft) | | |
| Flow time #1 (sec) | | |
| Flow time #2 (sec) | | |
| Flow time #3 (sec) | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

Reason if flow not measured:

## Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

GPS Reference | GPS Readings

Site: **Field Duplicates** Latitude:

Site Id: **DUPREE** Sample Region: **LWA** Longitude:

Personnel: Bryant, Greg, John L. Date: **12/13/2012** Time: 0827 Pictures:

## Samples Collected

☐ Intermediate container used to transfer water to sample bottles?

| Sample ID | Time | Sample Depth (ft) | Analytes | Bottle Count | Notes |
|---|---|---|---|---|---|
| ☐ MLMRP-003-DUPREE-06 | 0827 | | Water Composite | 1 | Field Duplicate |

## Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(°C) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| | | | | | | |

## Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (°C) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | |

% Bank Vegetation: Left Bank | Right Bank

% Shading

| | |
|---|---|
| Weather | Same as 10_ACAD |
| Water Color | |
| Instream Activity | |
| Odor | |
| Foreign Matter | — |

## Flow Data

Flow Start Time | End Time

| | Path# __ | Path# __ |
|---|---|---|
| Width at TOP (ft) | | |
| Width at MIDDLE (ft) | | |
| Width at BOTTOM (ft) | | |
| Depth at 25% at TOP (ft in) | | |
| Depth at 50% at TOP (ft in) | | |
| Depth at 75% at TOP (ft in) | | |
| Depth at 25% at MIDDLE (ft in) | | |
| Depth at 50% at MIDDLE (ft in) | | |
| Depth at 75% at MIDDLE (ft in) | | |
| Depth at 25% at BOTTOM (ft in) | | |
| Depth at 50% at BOTTOM (ft in) | | |
| Depth at 75% at BOTTOM (ft in) | | |
| Distance marked-off (ft) | | |
| Flow time #1 (sec) | | |
| Flow time #2 (sec) | | |
| Flow time #3 (sec) | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |

Reason if flow not measured:

## Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

added five (5) minutes to Environmental Sample time to determine Duplicate "Time Sampled."

Machado Lake Nutient TMDL Sampling

## Sampling Data Log Sheet

Site: **Island Outlet - Crenshaw Blvd/ Palos Verdes Dr**
Site Id: **2O SCBG** Sample Region: **LWA**
Personnel: _____ Date: **12/13/2012** Time: _____ Pictures: _____

**GPS Reference** Latitude: **33.7844** Longitude: **-118.3441**
**GPS Readings**

### Samples Collected

☐ Intermediate container used to transfer water to sample bottles?

| Sample ID | Time | Sample Depth (ft) | Analytes | Bottle Count | Notes |
|---|---|---|---|---|---|
| ☐ MLMRP-003-2O_SCBG-07 | | | Water Composite | 1 | |

### Field Measured Data

(Note: At Tox sites, If EC > 3000 uS/cm, collect an additional container)

| Time | Temp(ºC) | pH | D.O.(mg/L) | D.O.(%Sat) | Sp.Cond(uS/cm) | Turbidity(NTU) |
|---|---|---|---|---|---|---|
| | | | | | | |

### Field Observations

(See attached "Field Observations" sheet for standard comments and futher guidance)

| Air Temp (ºC) | Algae % Filamentous | Algae % Periphyton | Dominant Substrate |
|---|---|---|---|
| | | | |

**% Bank Vegetation**

| Left Bank | Right Bank | % Shading |
|---|---|---|
| | | |

| | |
|---|---|
| **Weather** | |
| **Water Color** | |
| **Instream Activity** | |
| **Odor** | |
| **Foreign Matter** | |

### Flow Data

**Flow Start Time** _____ **End Time** _____

| | Path# __ | Path# __ |
|---|---|---|
| **Width at TOP (ft)** | | |
| **Width at MIDDLE (ft)** | | |
| **Width at BOTTOM (ft)** | | |
| **Depth at 25% at TOP (ft in)** | | |
| **Depth at 50% at TOP (ft in)** | | |
| **Depth at 75% at TOP (ft in)** | | |
| **Depth at 25% at MIDDLE (ft in)** | | |
| **Depth at 50% at MIDDLE (ft in)** | | |
| **Depth at 75% at MIDDLE (ft in)** | | |
| **Depth at 25% at BOTTOM (ft in)** | | |
| **Depth at 50% at BOTTOM (ft in)** | | |
| **Depth at 75% at BOTTOM (ft in)** | | |
| **Distance marked-off (ft)** | | |
| **Flow time #1 (sec)** | | |
| **Flow time #2 (sec)** | | |
| **Flow time #3 (sec)** | | |

| R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) | R. Bank Dist (ft) | Depth (ft) | Velocity (ft/sec) |
|---|---|---|---|---|---|
| | | | | | |
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| | | | | | |

**Reason if flow not measured:**

### Additional Notes or Comments

Wildlife present? ☐ Non-contact recreation? (If present, describe below)

Site Dry throughout entire event.

Criteria set equivalent to 30_VANO (125 mL, 50 cycles, 15 min)