Attachment 1: Machado Lake Nutrient TMDL Year 1 Dry Event 2 Monitoring Site Field Logs

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: Bryant A, Greg R Date: 11/15/12

GPS Reference	GPS Readings
Latitude: 33.7831	33.46.981
Longitude: -118.3537	-118.21.225

Time: 0852 Pictures: on GPS

Samples Collected

☒ Intermediate container used to transfer water to sample bottles?

Sample ID	Time	Sample Depth (ft)	Analytes	Bottle Count	Notes
☒ MLMRP-002-1O_ACAD-01	0915	n/a	TSS, TDS	1	Int. Container
☒ MLMRP-002-1O_ACAD-02	0915		Diss Phosphorus, OrthoP, Nitrate, Nitrite	1	
☒ MLMRP-002-1O_ACAD-03	0915		Total Kjeldahl Nitrogen	1	
☒ MLMRP-002-1O_ACAD-04	0915		Ammonia-N, Total Phosphorus	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)
0920	17.78	7.87	9.03	95.1	2003	2.4

Field Observations

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

Air Temp (ºC)	Algae % Filamentous	Algae % Periphyton	Dominant Substrate
n/a	0	0	K

% Bank Vegetation Left Bank	% Bank Vegetation Right Bank	% Shading
0	0	100-

Weather	overcast.
Water Color	Clear
Instream Activity	none
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:

Flow had to be estimated because sample was taken from manhole

Additional Notes or Comments

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

W = 6" or .5'
D = 3/8"
V = 0.35 ft/sec. - 0.50 ft/sec.

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 Date: 11/15/2012 Time: 1100 Pictures: 2

GPS Reference	GPS Readings
Latitude: 33.8083	33.81590
Longitude: -118.2883	-118.28799

Samples Collected

☒ Intermediate container used to transfer water to sample bottles?

Sample ID	Time	Sample Depth (ft)	Analytes	Bottle Count	Notes
☒ MLMRP-002-3O_VAND-05	1120	Baggy	TSS, TDS	2	MS/MSD Baggy fill
☒ MLMRP-002-3O_VAND-06	1120	from	Diss Phosphorus, OrthoP, Nitrate, Nitrite	2	MS/MSD
☒ MLMRP-002-3O_VAND-07	1120	sheet	Total Kjeldahl Nitrogen	2	MS/MSD
☒ MLMRP-002-3O_VAND-08	1120	Flow.	Ammonia-N, Total Phosphorus	2	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)
1135	17.07	10.09	14.77	153.6	1169	4.0

Field Observations

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

Air Temp (°C)	Algae % Filamentous	Algae % Periphyton	Dominant Substrate
	0	90%	K

% Bank Vegetation Left Bank	% Bank Vegetation Right Bank	% Shading
0	0	0

Weather	Overcast
Water Color	yellow, clear
Instream Activity	
Odor	none
Foreign Matter	Leaves, fuc, trash

Flow Data

Flow Start Time 11:48 End Time 11:50

	Path# 1	Path# __
Width at TOP (ft)	1.8'	
Width at MIDDLE (ft)	2.0'	
Width at BOTTOM (ft)	2.0'	
Depth at 25% at TOP (ft in)	3/8	
Depth at 50% at TOP (ft in)	1/2	
Depth at 75% at TOP (ft in)	3/8	
Depth at 25% at MIDDLE (ft in)	1/4	
Depth at 50% at MIDDLE (ft in)	1/2	
Depth at 75% at MIDDLE (ft in)	3/8	
Depth at 25% at BOTTOM (ft in)	3/8	
Depth at 50% at BOTTOM (ft in)	1/2	
Depth at 75% at BOTTOM (ft in)	1/4	
Distance marked-off (ft)	10	
Flow time #1 (sec)	12.8	
Flow time #2 (sec)	11.7	
Flow time #3 (sec)	11.0	

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

Site: **Field Blanks**

Site Id: **TAHOE** Sample Region: **LWA**

Personnel: Bryant A., Greg R. Date: 11/15/2012 Time: 1100

GPS Reference	GPS Readings
Latitude:	
Longitude:	

Pictures:

Samples Collected

Intermediate container used to transfer water to sample bottles?

Sample ID	Time	Sample Depth (ft)	Analytes	Bottle Count	Notes
X MLMRP-002-TAHOE-10	1115	DTC	Diss Phosphorus, OrthoP, Nitrate, Nitrite	1	Field Blank DTC
X MLMRP-002-TAHOE-11	1115	DTC	Total Kjeldahl Nitrogen	1	Field Blank ↓
X MLMRP-002-TAHOE-12	1115	DTC	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(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	% Bank Vegetation Right Bank	% Shading

Weather	Overcast
Water Color	n/a or clear
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)

DTC = Direct To Container

Machado Lake Nutient TMDL Sampling

Sampling Data Log Sheet

Site: **Field Duplicates**

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

Personnel: Bryant A, Greg R. Date: 11/15/12

GPS Reference	GPS Readings
Latitude:	
Longitude:	

Time: 1100 Pictures:

Samples Collected

☒ Intermediate container used to transfer water to sample bottles?

Sample ID	Time	Sample Depth (ft)	Analytes	Bottle Count	Notes
☒ MLMRP-002-DUPREE-13	1120	Baggy	TSS, TDS	1	Field Duplicate-Baggy
☒ MLMRP-002-DUPREE-14	1120		Diss Phosphorus, OrthoP, Nitrate, Nitrite	1	Field Duplicate Full
☒ MLMRP-002-DUPREE-15	1120		Total Kjeldahl Nitrogen	1	Field Duplicate
☒ MLMRP-002-DUPREE-16	1120		Ammonia-N, Total Phosphorus	1	Field Duplicate

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	% Bank Vegetation 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)

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

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

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

Personnel: Bryant A, Greg R. Date: 11/15/2012

GPS Reference	GPS Readings
Latitude: 33.7809	33.78074
Longitude: -118.3506	-118.35094

Time: 0935 Pictures: ON GPS

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)
0937	—	—	—	—	—	—

Field Observations

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

Air Temp (ºC)	Algae % Filamentous	Algae % Periphyton	Dominant Substrate
	0	0	K

% Bank Vegetation Left Bank	% Bank Vegetation Right Bank	% Shading
0	0	100

Weather	Overcast.
Water Color	DRY - N/A
Instream Activity	N/A
Odor	N/A
Foreign Matter	N/A

Flow Data

Flow Start Time: ____ End Time: ____ SITE DRY

	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: Site Dry

Additional Notes or Comments

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

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: Bryant A, Greg R Date: 11/15/12

GPS Reference	GPS Readings
Latitude: 33.7844	33.78305
Longitude: -118.3441	-118.34539

Time: 1015 Pictures: 10

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	% Bank Vegetation Right Bank	% Shading
40	40	20

Weather	Overcast
Water Color	Site Dry
Instream Activity	N/A
Odor	N/A
Foreign Matter	N/A

Flow Data

Flow Start Time ____ End Time ____ Site Dry

	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: Site Dry

Additional Notes or Comments

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

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: Bryant A, GREG R. Date: 11/15/2012 Time: ~~11:00~~

GPS Reference	GPS Readings
Latitude: 33.8258	33.80848
Longitude: -118.2878	-118.29000

Pictures: 2

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)
1228	17.23	9.00	16.94	174.7	1980	5.5

Field Observations

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

Air Temp (ºC)	Algae % Filamentous	Algae % Periphyton	Dominant Substrate
—	10	90	K

% Bank Vegetation Left Bank	% Bank Vegetation Right Bank	% Shading
0	0	0

Weather	~~Overcast~~ -
Water Color	clear-slight golden
Instream Activity	none
Odor	none
Foreign Matter	minor refuse

Flow Data

Flow Start Time 1230 End Time 1235

	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)
0	0	0			
3	.05	.15est			
5	.05	.36			
6	.10	.41			
7	.10	.39			
8	.10	.21			
9	.05	.25			
10	.05	.30			
11	.05	.20est			
12	.05	.05est			
15	0	0			

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: **Island Inlet - Ashbridge Dr/ Pasatiempo Ln**		Latitude: **33.8082**	33.80825
Site Id: **3I_ASHB**	Sample Region: **LWA**	Longitude: **-118.2954**	-118.29537

Personnel: Bryant A, Greg R Date: 11/15/12 Time: 1340 Pictures: 2

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)
1343	17.70	8.32	8.69	91.0	702.9	0.0

Field Observations

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

Air Temp (ºC)	Algae % Filamentous	Algae % Periphyton	Dominant Substrate
n/a	0	30	K

% Bank Vegetation Left Bank	% Bank Vegetation Right Bank	% Shading
0	0	100

Weather	Overcast
Water Color	Clear
Instream Activity	None
Odor	None
Foreign Matter	None

Flow Data

Flow Start Time 1350 End Time 1356

	Path# 1	Path# __
Width at TOP (ft)	1.0	
Width at MIDDLE (ft)	1.25	
Width at BOTTOM (ft)	1.50	
Depth at 25% at TOP (ft in)	1/8	
Depth at 50% at TOP (ft in)	3/8	
Depth at 75% at TOP (ft in)	1/8	
Depth at 25% at MIDDLE (ft in)	1/4	
Depth at 50% at MIDDLE (ft in)	3/8	
Depth at 75% at MIDDLE (ft in)	3/8	
Depth at 25% at BOTTOM (ft in)	1/2	
Depth at 50% at BOTTOM (ft in)	7/8	
Depth at 75% at BOTTOM (ft in)	5/8	
Distance marked-off (ft)	10	
Flow time #1 (sec)	61.50	
Flow time #2 (sec)	31.50	
Flow time #3 (sec)	31.22	

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? NO ☐ Non-contact recreation? No (If present, describe below)

diameter of pipe = 78"

Machado Lake Nutient TMDL Sampling

Sampling Data Log Sheet

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

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

Personnel: Bryant Ay GREGR. Date: 11/15/2012 Time: 1250 Pictures: 2

GPS Reference	GPS Readings
Latitude: 33.8058	33.80622
Longitude: -118.2989	-118.29821

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)
1316	17.56	8.32	8.94	93.8	2105	0.0

Field Observations

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

Air Temp (ºC)	Algae % Filamentous	Algae % Periphyton	Dominant Substrate
n/a	0	100	R

% Bank Vegetation Left Bank	% Bank Vegetation Right Bank	% Shading
0	0	0

Weather	Overcast
Water Color	clear
Instream Activity	none
Odor	none
Foreign Matter	urban trash - light

Flow Data

Flow Start Time 1330 End Time 1333

	Path# 1	Path# __
Width at TOP (ft)	24	
Width at MIDDLE (ft)	26	
Width at BOTTOM (ft)	26	
Depth at 25% at TOP (ft in)	3/8	
Depth at 50% at TOP (ft in)	1.0	
Depth at 75% at TOP (ft in)	9/8	
Depth at 25% at MIDDLE (ft in)	7/8	
Depth at 50% at MIDDLE (ft in)	7/8	
Depth at 75% at MIDDLE (ft in)	3/8	
Depth at 25% at BOTTOM (ft in)	3/4	
Depth at 50% at BOTTOM (ft in)	3/4	
Depth at 75% at BOTTOM (ft in)	3/4	
Distance marked-off (ft)	25	
Flow time #1 (sec)	43.03	
Flow time #2 (sec)	44.53	
Flow time #3 (sec)	42.78	

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)