

Central Plymouth County Water District Commission

Minutes of Tuesday, August 22, 2023, ZOOM Meeting

The meeting took place via Zoom video/teleconference due to current COVID-19 social distancing recommendations issued by Governor Maura Healey and was recorded.

Quorum was reached with three Commissioners voting in affirmative, roll call vote: Commissioner Biechler – yes, Commissioner Egerton – yes, and Chair O’Leary – yes. Three in the affirmative, the meeting began at 12:04 PM. Chair O’Leary stated that the meeting would be recorded.

Meeting attendees identified included Al DeGirolamo from Senator Brady’s office; Dr Eno Mondesir from Brockton Hospital; Don Howard from the Hanson Water Committee; Joanne Zygmunt from OCPC; Pine duBois from the Jones River Watershed Association; Matt Penella from Kingston Conservation; Derek Etkin from CDM Smith; Jeremy Gillespie, Anita Molino; and Nathan Hedberg. Kimberly Graff of Groff Associates and Matthew Ladewig from TRC Inc, also attended. Frank Basler, Plymouth County Administrator, attended and took minutes.

Commissioner Beichler moved to accept the minutes of June 27, 2023. Seconded by Commissioner Egerton. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes 3 – 0.

Frank Basler gave an overview of the Finance Report. The June 30, 2023, the bank balance was \$172,876.58 (see attached Finance Report). Only interest of \$36.71 was posted to the account.

Commissioner Egerton made a motion to approve payment of the below TRC invoices and the Plymouth County invoice for FY 23 services rendered. Commissioner Biechler seconded the motion. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously.

- TRC inv# 600466 7/19/23 \$ 5,164.90
- TRC inv # 605431 8/16/23 \$ 4,612.40
- Plymouth County Inv for FY23 services 6/30/23 \$ 3,573.31

Chair O’Leary introduced Kim Groff to discuss next steps for the TRC Silver Lake Water Quality Study. Ms. Groff and the Commissioners discussed the content and tone of the press release. Commissioner Biechler stated that there should be a consistent message and offered some ideas to updating some language. Ms. Groff sent over materials to discuss. Ms. Groff suggested a future public listening session to discuss the results of the report. Commissioner Beichler will work with Ms. Groff to update the press release prior to sending the press release out. Commissioner Egerton said the document was well written. Chair O’Leary had sent comments to Ms. Groff, and they were incorporated into the documents. It was agreed to accept the draft version as the final version of the report and to post appropriately. Commissioner Egerton made the above motion, seconded by Commissioner Biechler. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously. Commissioner Egerton will work with Ms. Groff on moving ahead with a public session on the report.

According to a pamphlet mailed by the City of Brockton, the City of Brockton is working on correcting some issues with their City’s water supply. The City stated that they test the water and that the tap water meets all required criteria and standards of water quality under the Clean Water Act.

Frank will email blast the press release, the trifold, and the link to the full report when ready.

Ms. Groff and TRC have discussed continued further monitoring/testing in the lake. After some discussion on the logistics, Frank stated that a 10% overage of the contract is permitted without rebidding. Commissioner Beichler made a motion to further test Silver Lake for service up to \$22,500 and to begin as soon as possible. Mr. Ladewig said he will begin the sampling done ASAP. He will also look at Monponsett Pond too and the effect of the diversions. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously.

Frank Basler gave an update on the hydro dredge: Keene Engineering is finishing up the assembly. Frank will work with Pine and Brad Chase to determine the shipping address. Keene will let us know when the dredge is being shipped across the country.

Al DeGirolamo from Senator Brady’s office stated that the Senator was successful in securing a earmark for \$50,000 for the CPCWDC administration.

Ms. Zygmunt stated that they are moving ahead and will need a representative from the CPCWDC. Discussions moved to Ms. Groff representing the Commission due to her expertise. Commissioner Egerton made a motion to have Ms. Groff represent the CPCWDC for the OCPC RFP committee and report back to the Commission. Commissioner Biechler seconded the motion. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously.

Ms. duBois then updated the Commissioners on the need for a letter of support to remove a culvert under Lake Street to facilitate fish passage. This will be done by a NOAA grant. Commissioner Egerton made that motion and Commissioner Biechler seconded. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously.

The next regularly scheduled meeting will be on Tuesday, September 26 at noon.

The meeting was adjourned at 1:25 P.M. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously.

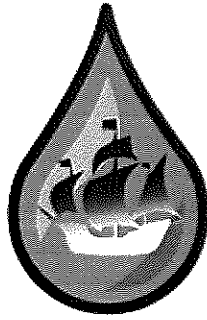
Submitted by Frank Basler

Attachments: agenda for August 22, 2023, Financial Update, TRC invoices, Plymouth County invoice, and trifold pamphlet.

CENTRAL PLYMOUTH COUNTY
WATER DISTRICT COMMISSION

44 OBERY STREET, PLYMOUTH, MA 02360

WWW.CENTRALPLYMOUTHCOUNTYWATER.ORG



JACK O'LEARY, CHAIR, PLYMPTON
JOLEARY@PLYMOUTHCOUNTYMA.GOV

LAURA BIECHLER, BROCKTON
LBIECHLER@PLYMOUTHCOUNTYMA.GOV

ART EGERTON, PEMBROKE
AEGERTON@PLYMOUTHCOUNTYMA.GOV

NOTICE OF MEETING

DATE & TIME: **Tuesday, August 22, 2023, 12:00 pm**

MEETING LOCATION: **Zoom video/Teleconference**

Join Zoom Meeting <https://us06web.zoom.us/j/86591308616> Meeting ID: 865 9130 8616

Dial by your location 646 876 9923 US 646 931 3860 US Meeting ID: 865 9130 8616

This meeting notice is being filed and posted in each city or town within the Central Plymouth County Water District, pursuant to General Law Chapter 30A, Section 20. Said notice and agenda must be filed in the offices of the city and town clerks within the District **at least 48 hours** prior to such meeting. Such filing and posting shall be the responsibility of the officer calling the meeting.

AGENDA

Meeting opening

Approval of minutes: Tuesday, June 27, 2023

Finance report and invoice approval

TRC	inv# 600466	July 19, 2023	\$ 5,164.90
	Plymouth County FY 23 invoice	June 30, 2023	\$ 3,573.31

Discussion and next steps for the TRC Silver Lake Water Quality Study Report draft and next steps – Matthew Ladewig and Kimberly Groff

Services for additional monitoring of Silver Lake

Update on Old Colony Planning Council Water Study and vote for CPCWDC representative

Dredge completion and delivery

Other business not anticipated by Chair

Adjourn

Posted on Wednesday, August 16, 2023, at 12:00 pm at each of the eight Clerk's offices listed below and the County web site at www.plymouthcountyma.gov



INVOICE

PAYMENT INSTRUCTIONS: Please pay by ACH or WIRE. Provide Invoice Numbers/Amounts to
ARremitdetail@trccompanies.com

Electronic Funds Payment Details:

Bank Name: Citizens Bank:
US ACH: 211170114
US WIRE: 011500120

Swift Code: CTZIUS33
Account Name: TRC
Account Number: 2232037090

Check Payment Mailing Address: TRC LOCKBOX • P.O. BOX 536282 • PITTSBURGH, PA 15253-5904

Central Plymouth County Water District Commission
44 Obery Street
Plymouth, MA 02360

July 19, 2023
Project No: 016120.0000.0000
Invoice No: 600466
Project Manager: Matthew Ladewig

Project 016120.0000.0000 **SILVER LAKE WATER QUALITY MONITORING PROGRAM**

Professional Services through July 14, 2023

Phase 000003 **PUBLIC INPUT PLAN**

TRC Personnel

	Hours	Rate	Amount	
Ladewig, Matthew	8.25	215.00	1,773.75	
Martin, Stephanie	7.00	140.00	980.00	
Waleszczyk, Jean	1.50	80.00	120.00	
Communication Fee			114.95	
Total	16.75		2,988.70	2,988.70
Total this Phase				\$2,988.70

Phase 000008 **TECHNICAL MEMORANDUM**

TRC Personnel

	Hours	Rate	Amount	
Calitri, Scott	16.75	80.00	1,340.00	
Ladewig, Matthew	3.50	215.00	752.50	
Communication Fee			83.70	
Total	20.25		2,176.20	2,176.20
Total this Phase				\$2,176.20
Total this Invoice				\$5,164.90



INVOICE

PAYMENT INSTRUCTIONS: Please pay by ACH or WIRE. Provide Invoice Numbers/Amounts to
ARremitdetail@trccompanies.com

Electronic Funds Payment Details:

Bank Name: Citizens Bank:
US ACH: 211170114
US WIRE: 011500120

Swift Code: CTZIUS33
Account Name: TRC
Account Number: 2232037090

Check Payment Mailing Address: TRC LOCKBOX • P.O. BOX 536282 • PITTSBURGH, PA 15253-5904

Central Plymouth County Water District Commission
44 Obery Street
Plymouth, MA 02360

August 16, 2023
Project No: 016120.0000.0000
Invoice No: 605431
Project Manager: Matthew Ladewig

Project 016120.0000.0000 SILVER LAKE WATER QUALITY MONITORING PROGRAM

Professional Services through August 11, 2023

Phase 000003 PUBLIC INPUT PLAN

TRC Personnel

	Hours	Rate	Amount	
Ladewig, Matthew	10.00	215.00	2,150.00	
Martin, Stephanie	7.00	140.00	980.00	
Szczepanski, John	1.50	155.00	232.50	
Waleszczyk, Jean	8.50	80.00	680.00	
Communication Fee			161.70	
Total	27.00		4,204.20	4,204.20
			Total this Phase	\$4,204.20

Phase 000008 TECHNICAL MEMORANDUM

TRC Personnel

	Hours	Rate	Amount	
Bachand, Kristen	.25	130.00	32.50	
Calitri, Scott	4.50	80.00	360.00	
Communication Fee			15.70	
Total	4.75		408.20	408.20
			Total this Phase	\$408.20
			Total this Invoice	\$4,612.40



THE COUNTY OF PLYMOUTH

44 OBERY STREET
PLYMOUTH, MA 02360
(508)830-9101

Date: 7/24/2022

TO: Central Plymouth County Water District Commission

c/o CPCWDC Commissioners

44 Obery Street

Plymouth, MA 02360

Administrative Support for July 1, 2022 to June 30, 2023	
Annual Service Fee for FY 2022: July 1 to June 30, 2023	\$ 1,500.00
Email Services for FY 2022: July 1 to June 30, 2022	
waterdistrict E1 for 12 months @ \$9.25	\$ 111.00
A Egerton/J Zygmunt E1 for 12 months @ \$9.25	\$ 111.00
L Biechler/M Sotir E1 for 12 months @ \$9.25	\$ 111.00
J O'Leary E3 for 12 months @ \$20.80	\$ 249.60
Barracuda email security \$7/month/email	\$ 252.00
back up services for each (3) email at \$5/mo/address	\$ 180.00
Invoice for Egerton business cards on 4/20/23	\$ 95.00
County Services through June 30, 2023 - see attached	\$ 963.71
TOTAL DUE:	\$ 3,573.31
Approved for transfer from CPCWDC Account: Above expenses approved by CPCWDC Commissioners	
Jack O'Leary - see attachment	
Laura Biechler - see attached	
Art Egerton - see attached	

THESE FORMS ARE FURNISHED BY THE COUNTY COMMISSIONERS' OFFICE



Bond Printing & Marketing

88 Camelot Drive #37
Plymouth MA 02360

www.bondprinting.com

Invoice

No: **44523**

Date: 4/20/23

Customer PO: Nancy O'Rourke



BondPromo.com

Plymouth County Commissioners
44 Obery Street
Plymouth MA 02360

PLEASE REMIT TO:
BOND PRINTING CO
88 CAMELOT DRIVE #37
PLYMOUTH, MA 02360

Quantity	Description	Amount
250	Business Card, Art Egerton	\$ 45.00
0:00	Graphic Services setup new card	\$ 50.00
	Local delivery NO CHARGE	\$ 0.00
<p>APPROVED FOR PAYMENT</p> <p><i>[Signature]</i> 4/25/23</p> <p>PLYMOUTH COUNTY ADMINISTRATOR</p> <p>RECEIVED</p> <p>APR 24 2023</p> <p>BY: <i>[Signature]</i></p> <p>01-030362</p>		
<p>Our terms are: net/30 18% A.P.R. (1.5% Monthly) applied to all past due balances Most Major Credit Cards Accepted with 3% Surcharge</p>		<p>SUBTOTAL \$ 95.00</p> <p>TAX</p> <p>TOTAL \$ 95.00</p> <p>AMOUNT DUE <u>\$ 95.00</u></p>

Financial Activity for CPCWDC

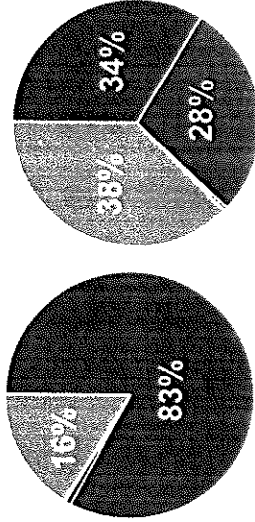
6/30/2023	Interest for June	\$	35.51	\$	172,876.58	statement balance 6/30/23	\$172,876.58
5/31/2023	Interest for May	\$	36.70	\$	172,841.07	statement balance 5/31/23	\$172,841.07
4/30/2023	Interest for April	\$	17.82	\$	172,804.37		
4/26/2023	DCR deposit of for FY 23 Earmarks	\$	100,000.00				
4/4/2023	TRC Invoice	\$	(6,330.60)				
3/31/2023	Interest for March	\$	49.15	\$	79,117.15		
3/22/2023	Old Colony Planning Group	\$	(225,000.00)				
2/28/2023	Interest for February	\$	62.15	\$	304,068.00	statement balance 2/28/23	\$304,068.00
2/22/2023	TRC	\$	(26,702.95)				
1/31/2023	Interest for January	\$	71.05				
		\$	(15,457.97)				
12/31/2022	Interest for December	\$	73.90	\$	346,095.72	statement balance 12/31/22	\$346,095.72
12/28/2022	Invoice Kimberly Groff Assoc	\$	(2,362.50)				
11/30/2022	Interest for November	\$	73.04	\$	348,384.32	statement balance 11/30/22	\$348,384.32
11/8/2022	TRC invoices	\$	(26,620.87)			chck #1026	
11/7/2022	County invoicing for FY 22	\$	(4,581.25)			chck #1027	
10/31/2022	Interest for October	\$	80.56	\$	379,513.40	statement balance 10/31/22	\$379,513.40
9/30/2022	Interest for September	\$	77.95	\$	379,432.84	statement balance 9/30/22	\$379,432.84
8/31/2022	Interest for August	\$	17.38	\$	379,354.89	statement balance 8/31/22	\$379,354.89
8/19/2022	deposit for Keene Engineering for dredge	\$	(35,000.00)				
8/15/2022	TRC invoices for May, June, and July 2022	\$	(21,227.68)				
7/31/2022	Interest for July	\$	18.50	\$	435,565.19	statement balance 7/31/22	\$435,565.19
6/30/2022	Interest for June	\$	17.90	\$	435,546.69	statement balance 6/30/22	\$435,546.69
5/31/2022	interest for May	\$	18.93				
5/23/2022	Invoice for Kimberly Groff Assoc (April Inv)	\$	(3,300.00)	\$	435,509.86		
5/23/2022	Invoice for TRC environmental (April Inv)	\$	(7,145.43)				
4/30/2022	Interest for April	\$	18.53			statement balance 4/30/22	\$449,621.87
4/22/2022	Invoice for TRC environmental (March Inv)	\$	(3,666.58)				
4/12/2022	Invoice Kimberly Groff Assoc	\$	(3,975.00)				
3/31/2022	Interest for March	\$	19.49	\$	453,578.34	statement balance 3/31/22	\$453,578.34
3/11/2022	ESS Consulting invoice	\$	(16,563.64)				
2/28/2022	Interest for February	\$	18.32	\$	470,122.49	statement balance 2/28/22	\$470,122.49
2/22/2022	ESS Consulting invoice	\$	(9,851.40)				
1/31/2022	Interest for January	\$	20.38	\$	479,955.57		
1/3/2022	Peter Turtle final payment #1016	\$	(1,038.00)				
12/31/2021	Interest for December	\$	21.23	\$	480,973.19	statement balance 12/31/21	\$480,973.19
12/29/2021	check 1015, EES Oct and Nov invoices	\$	(20,857.18)				
12/20/2021	check 1017, reimb Basler for web expenses	\$	(283.40)				
11/30/2021	Interest for November	\$	20.64	\$	502,092.54	statement balance 11/30/21	\$502,092.54
10/31/2021	Interest for October	\$	20.00	\$	502,071.90	statement balance 10/31/21	\$502,071.90
10/22/2021	State Earmark	\$	50,000.00	\$	502,051.90	administrative set aside	
10/12/2021	ESS Consulting	\$	(21,783.01)	\$	452,051.90	chk# 1014	

TECHNICAL FINDINGS

Nutrient Loading

All Loading

Total Phosphorus Total Nitrogen



- Internal (Sediments)
- Atmospheric Deposition
- Groundwater
- Surface Inflows

The majority of surface inflows are from Monponsett Pond.

Internal vs. External Loading of Nutrients

- Excessive nutrients cause water quality problems.
- Internal loading from the sediments was the largest source of phosphorus to Silver Lake (>80%) because of accumulation over time from watershed and diversion sources.
- External loading accounted for a larger share of nitrogen loading, mostly through surface inflows and atmospheric deposition
- Diversion from East Monponsett Pond was the largest source of external phosphorus and nitrogen loading

Key Takeaways

Silver Lake still supports some uses but is facing multiple management challenges: invasive plants, low dissolved oxygen, excessive phosphorus, and harmful algal blooms.

These issues are affecting Silver Lake's suitability as aquatic habitat and a community resource.

Next Steps

Develop and implement an appropriate management response plan to address current impairments and future risks.

A large-scale approach will be needed to fully address the observed issues on a broader basis.

1. Ongoing monitoring is recommended to track water quality, water quantity, and ecological trends.
2. Additional modeling to evaluate the effectiveness of alternative management scenarios.
3. Ultimately, need to develop a comprehensive management plan for Silver Lake that:
 - Identifies a target condition
 - Assesses feasibility of management options for achieving that condition
 - Selects and prioritizes the preferred management options
 - Identifies funding needs and sources
 - Lays out a schedule for implementation
 - Provides a mechanism for evaluating success

Prepared for:

Central Plymouth County
Water District Commission
44 Ottery Street
Plymouth, MA 02360



Prepared by:

TRC Environmental
Corporation
10 Hemingway Dr. 2nd Floor
East Providence, RI 02915

Silver Lake Water Quality Monitoring Program

Halifax, Plympton, Pembroke,
and Kingston, Massachusetts

September 2021 – October 2022

Purpose

The Silver Lake Water Quality Monitoring Program was initiated to investigate and document water quality conditions within Silver Lake, its watershed, and interbasin diversion sources (Monponsett Pond and Furnace Pond).

The overall goals of this Monitoring Program were as follows:

1. Collect water quality data to help inform community management decisions.
2. Develop a baseline understanding of current water quality conditions

Silver Lake, which will help identify solutions to the problems. See results on reverse.