

Central Plymouth County Water District Commission

Minutes of Tuesday, March 28, 2023, ZOOM Meeting

The meeting took place via Zoom video/teleconference due to current COVID-19 social distancing recommendations issued by Governor Charles Baker.

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 12:00 PM.

Meeting attendees identified included Al DeGirolamo from Senator Brady’s office; Jason Cullinane from Senator Moran’s office, Kamiya Parkin Policy and Intergovernmental Affairs Associate from Mayor Sullivan’s office; Don Howard from the Hanson Water Committee; Joanne Zygmunt from OCPC; Bill Napolitano from SRPEDD; Pine duBois from the Jones River Watershed Association; Matt Panella from the Kingston Conservation Committee; Charles Matthewson from WATD; Bernadette Kolb; Stephanie Martin; 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.

Chair O’Leary opened the annual reorganization of the Commission asking for nominations for Chair from the other Commissioners. Commissioner Egerton nominated Chair O’Leary to continue as Chair. This was seconded by Commissioner Biechler. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – yes. Motion passes unanimously.

Commissioner Egerton moved to accept the minutes of January 24, 2022. Seconded by Commissioner Biechler. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O’Leary – present. Motion passes 2 – 0 – 1.

Frank Basler gave an overview of the Finance Report. The February 28, 2023, bank balance was \$304,068.00 (see attached). A check for \$225,000 was cut for the OCPC as part of a Federal grant per the Commissioners vote last meeting. DCR will be sending the FY ’23 earmark payments of \$100,000 to the County soon. There were no questions raised.

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

- TRC invoice 575987 dated February 20, 2023, for \$4,655.30
- TRC invoice 580099 dated March 16, 2023, for \$1,665.30

Kim Groff introduced Matt Ladewig who gave an update on the progress of the TRC project. He presented the attached slides to bring a common understanding of the project for the new Commissioners and all on the Zoom. The slide presentation is posted on www.centralplymouthcountywater.org. A schedule for future deliverables will be released in the near future.

Don Howard asked if any cyanobacteria was present in Silver Lake and Mr. Ladewig said there was.

Ms. Zygmunt asked what the process will be moving forward with the release of the report. The Commissioners thought they would release the report and set up public listening sessions along with a takeaway leaflet with key messaging from the information. Ms. Groff agreed and shared that there will be a document of the collected data that will be released with the report.

Ms. duBois stated that this is great news for the region and is looking forward to the release of the model from TRC. She gave her thanks for the project.

Ms. Zygmunt stated that OCPC did get an informal approval for the Federal grant with a potential kickoff for the 17 municipalities, stakeholders, and other interested parties that would help with the development of a scope for an RFP. The grant will focus on water supply and quality.

Frank Basler gave an update on the hydro dredge: Keene Engineering is still waiting on the delivery of an important pump that has been back ordered by the manufacturer. Keene will let us know as soon as the pump is available. The Department of Fish and Game management contract will be posted on the CPCWDC website.

Ms. duBois stated that the Jones River annual fish and eel count is starting April 1 and asked about management about the sluiceway. She also asked if the diversion is on and if so, then why. The Chair stated that he understood the diversion is not on now but will reach out to Jonathan Hobill, MA DEP. Commissioner Egerton made a motion to designate Commissioner Biechler to set up a meeting with Ms. duBois, Patrick Hill, of the City of Brockton DPW, and Ms. Parkin from Mayor Sullivan's office to assist with the fish count logistics. Biechler seconded the motion. Roll call vote: Commissioner Biechler – yes; Commissioner Egerton – yes, and Chair O'Leary – yes. Motion passes unanimously.

The next regularly scheduled meeting will on Tuesday, April 25th at noon.

Meeting adjourned at 1:12 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 March 28, Financial Update, TRC invoices, and TRC update PP

CENTRAL PLYMOUTH COUNTY
WATER DISTRICT COMMISSION

44 OBERY STREET, PLYMOUTH, MA 02360

WWW.CENTRALPLYMOUTHCOUNTYWATER.ORG



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LAURA BIECHLER, BROCKTON
LBIECHLER@PLYMOUTHCOUNTYMA.GOV

ART EGERTON, PEMBROKE
AEGERTON@PLYMOUTHCOUNTYMA.GOV

NOTICE OF MEETING

DATE & TIME: **Tuesday, March 28, 2023, 12:00 pm**

MEETING LOCATION: **Zoom video/Teleconference**

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.

Join Zoom Meeting <https://us06web.zoom.us/j/87457666101> Meeting ID: 874 5766 6101

Dial by your location +1 646 876 9923 US or +1 646 931 3860 US Meeting ID: 874 5766 6101

AGENDA

Meeting opening

Annual Reorganization of Commission, note that Commissioner Egerton was reappointed as a Commissioner at the March 20 Advisory Board meeting for three-year term, expiring February 2026.

Approval of minutes: Tuesday, January 24, 2023

Finance report and invoice approval

Discussion of TRC Silver Lake Water Quality Study results – Matthew Ladewig and Kimberly Groff

Update on Old Colony Planning Council Water Study

Update and discussion on the timeline of hydro dredge

Other business not anticipated by Chair

Adjourn

Posted on Wednesday, March 22, 2023, at 1:00 pm at each of the eight Clerk's offices listed below and the County web site at www.plymouthcountyma.gov

BROCKTON • EAST BRIDGEWATER • HALIFAX • HANSON • KINGSTON • PEMBROKE • PLYMPTON • WHITMAN

Financial Activity for CPCWDC

out 225K
in 100K
DCR

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 Tuttle 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
9/30/2021	Interest for September	\$	19.48	\$	473,834.91	
9/1/2021	Kimberly Groff Assoc	\$	(2,625.00)	\$	473,815.43	chk # 1012
8/31/2021	Interest for August	\$	20.39	\$	476,440.43	statement balance 8/31/21 \$476,440.43
8/25/2021	Frank Basler	\$	(130.76)	\$	476,420.04	
8/25/2021	Plymouth County	\$	(4,730.08)	\$	476,550.80	chk \$1011 for services for FY 21
7/31/2021	Interest for July	\$	20.44	\$	481,280.88	statement balance 7/31/21 \$481,280.88
6/30/2021	Interest for June	\$	19.78	\$	481,260.44	statement balance 6/30/21 \$481,260.44
5/31/2021	Interest for May	\$	20.51	\$	481,240.66	
5/4/2021	Kimberly Groff Assoc	\$	(4,950.00)	\$	481,220.15	
4/30/2021	interest for April	\$	19.98	\$	486,170.15	
3/31/2021	Interest for March	\$	20.64	\$	486,150.17	statement balance 3/31/21 \$486,150.17
2/28/2021	Interest for February	\$	18.65			
1/31/2021	Interest for January	\$	20.64	\$	486,110.88	statement balance 1/31/21 \$486,110.88
12/31/2020	Interest for December	\$	20.60	\$	486,090.24	statement balance 12/31/20 \$486,304.01
12/30/2020	brochure printing and acrylci holders	\$	(213.77)			reimb to Frank chk#
11/30/2020	Interest for November	\$	19.93	\$	486,283.41	statement balance 11/30/20 \$486,283.41
10/31/2020	Interest for October	\$	20.59			
9/30/2020	Interest for September	\$	20.02	\$	486,242.89	statement bal 9/30/20 \$486,497.89 - diff Source4 chk
9/16/2020	invoice for Source4 for brochure final payment	\$	(255.00)			pd #1007 \$255.00
	transfer for County Expenses	\$	(2,805.94)			pd #1008 \$2,805.94
8/31/2020	Interest for August	\$	22.06	\$	489,283.81	statement balance 8/31/20 \$
7/31/2020	Interest for July	\$	41.44	\$	489,261.75	statement balance 7/31/20 \$489,220.31
6/30/2020	Interest for March, April, May, and June	\$	260.56	\$	489,220.31	statement balance 6/30/20 \$489,220.31
2/29/2020	Interest for January and February	\$	240.84	\$	488,959.75	statement balance 2/29/20 \$488,959.75
1/20/2020	reimb to Basler for Weebly invoices #1006	\$	(263.45)			pd #1006 \$263.45
1/20/2020	Madeline M. Smith invoice 11/30/19 #1005	\$	(1,025.00)			pd #1005 \$1,025.00
12/31/2019	Interest December	\$	124.82	\$	490,007.36	statement balance 12/31/2019 \$490,007.36
11/30/2020	Interest November	\$	91.36	\$	489,882.54	statement balance 11/30/2019 \$489,882.54
11/1/2019	Madeline M. Smith invoice 9/30/19 #1004	\$	(1,210.39)			
11/15/2019	DCR Transfer Admin Costs	\$	50,000.00			
11/15/2019	DCR Transfer special earmark	\$	155,000.00			
10/31/2019	Interest October	\$	97.13	\$	286,001.57	
9/30/2019	Interest September	\$	94.13			
8/31/2019	Interest for August	\$	97.66	\$	285,810.31	statement balance 8/31/2019 \$287,565.31
8/27/2019	Madeline M. Smith invoice #1003	\$	(1,755.00)			
6/30/2019	Interest for July	\$	97.63			
6/30/2019	Interest for June	\$	95.57	\$	287,370.02	statement balance 6/30/19 \$287,370.02
5/31/2019	Interest for March, April, and May	\$	302.58			
5/29/2019	Peter Tuttle final payment #1002	\$	(10,860.00)			
4/30/2019	County of Plymouth - Admin FY 19 and Expenses (7/1 to 4/30)	\$	(2,186.33)			email, admin fee \$1,500 for FY 19, and misc services
3/31/2019	interest through March 31, 2019	\$	259.27			
1/22/2019	DCR for water plan	\$	170,000.00			
1/22/2019	DCR for FY 19	\$	50,000.00			
6/1/2018	DCR for FY 18	\$	50,000.00			
5/30/2018	interest through May 31, 2018	\$	138.53			
4/19/2018	Peter Tuttle #1003	\$	(7,950.00)			
3/8/2018	County of Plymouth - FY 18 Admin and Expenses	\$	(1,227.40)			email, bussiness cards, admin fee \$1,000 FY '18
3/8/2018	Corona Environment	\$	(9,900.00)			
1/30/2017	County of Plymouth - FY 17 Admin and Expenses	\$	(1,302.20)			email, bussiness cards, envelopes, admin fee \$1,000 FY '17
5/15/2016	DCR for FY 16	\$	50,000.00			

/27/2023



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

March 16, 2023
Project No: 016120.0000.0000
Invoice No: 580099
Project Manager: Matthew Ladewig

Project 016120.0000.0000 SILVER LAKE WATER QUALITY MONITORING PROGRAM

Professional Services through March 10, 2023

Phase 000007 GROUNDWATER ASSESSMENT

TRC Personnel

	Hours	Rate	Amount	
Ladewig, Matthew	1.00	95.00	95.00	
Communication Fee			3.80	
Total	1.00		98.80	98.80
Total this Phase				\$98.80

Phase 000008 TECHNICAL MEMORANDUM

TRC Personnel

	Hours	Rate	Amount	
Ladewig, Matthew	3.75	215.00	806.25	
Martin, Stephanie	5.00	140.00	700.00	
Communication Fee			60.25	
Total	8.75		1,566.50	1,566.50

Total this Phase \$1,566.50

Total this Invoice \$1,665.30



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

February 20, 2023
Project No: 016120.0000.0000
Invoice No: 575987
Project Manager: Matthew Ladewig

Project 016120.0000.0000 SILVER LAKE WATER QUALITY MONITORING PROGRAM

Professional Services through February 10, 2023

Phase 000008 TECHNICAL MEMORANDUM

TRC Personnel

	Hours	Rate	Amount	
Bachand, Kristen	5.00	130.00	650.00	
Ladewig, Matthew	2.00	215.00	430.00	
Martin, Stephanie	18.00	140.00	2,520.00	
Treacy, James	.50	140.00	70.00	
Communication Fee			146.80	
Total	25.50		3,816.80	3,816.80
			Total this Phase	\$3,816.80

Phase 000009 Internal Phosphorous Load Analysis and Water Quality Modeling

TRC Personnel

	Hours	Rate	Amount	
Ladewig, Matthew	3.75	215.00	806.25	
Communication Fee			32.25	
Total	3.75		838.50	838.50
			Total this Phase	\$838.50
			Total this Invoice	\$4,655.30

Silver Lake Water Quality Monitoring Program

Project Update

Central Plymouth County Water District Commission
March 28, 2023

SUPPORTING

[DOING]

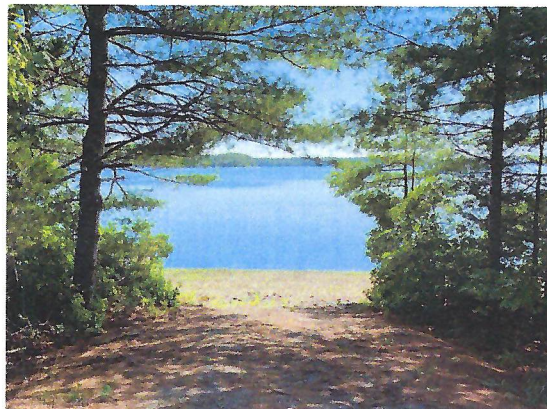
LEADING

TRCcompanies.com

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Project Background – Objectives/Goals

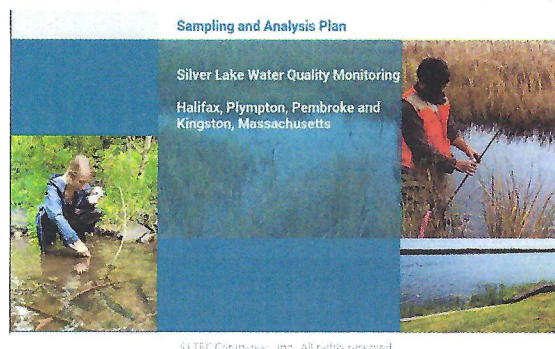
- Collect water quality data to help inform community management decisions to address water quality and quantity issues in Silver Lake and connected water bodies
- Develop a baseline understanding of current water quality and continue to develop solutions-oriented relationships with the City of Brockton's Water Division and the public



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Project Background – Quality

- Sampling and Analysis Plan (SAP) - description of project domain, design, and schedule
 - Draft SAP presented to the public in August 2021
 - Public input received and incorporated into revised SAP – finalized January 2022
- Quality Assurance Project Plan (QAPP) – description of quality assurance/quality control
 - Draft QAPP submitted to US EPA Region 1 and MassDEP in January 2022
 - Agency comments received and incorporated into revised QAPP – finalized April 2022



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Monitoring Program - Timeline

- More than one year of monitoring data collected – September 2021 to October 2022
- Variety of physical, biological, and chemical data collected
- Field visits on an at least monthly basis
- Continuous data loggers in streams and deepest point in lake

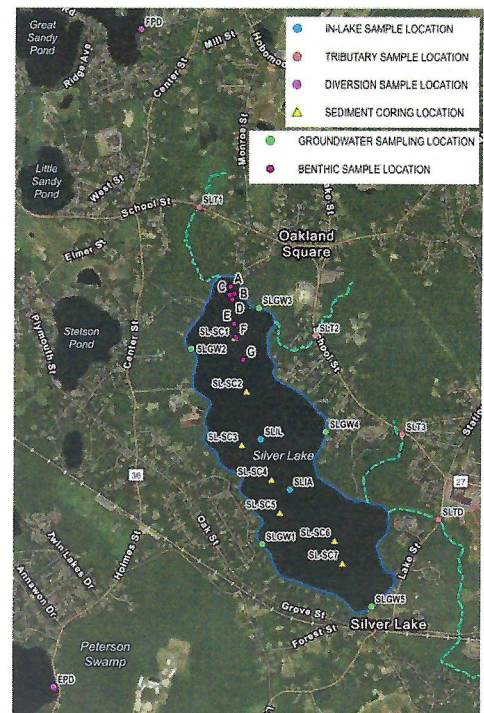
Task	2021								2022							
	September		October		November		December		January		February		March		April	
	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late	Early	Late
Bathymetric, Aquatic Plant, and Benthic Surveys																
In-Lake Water Column & Quality Sampling																
In-Lake Bacteria Testing																
In-Lake Cyanotoxin Testing																
Upstream and Downstream Monitoring - Streams																
Upstream and Downstream Monitoring - Diversions																
Groundwater Assessment																
Sediment Coring and Phosphorus Fractionation																

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Monitoring Program - Locations

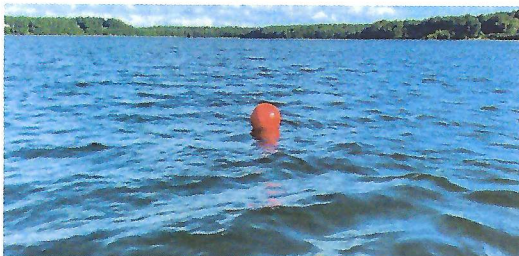
- 29 total sampling locations
- 4 in-lake surface water locations
- 4 tributary and outlet surface water locations
- 2 diversion source surface water locations
- 7 sediment coring locations
- 5 shoreline groundwater locations
- 7 benthic macroinvertebrate locations
- Additional in-lake water depth and aquatic plant mapping locations

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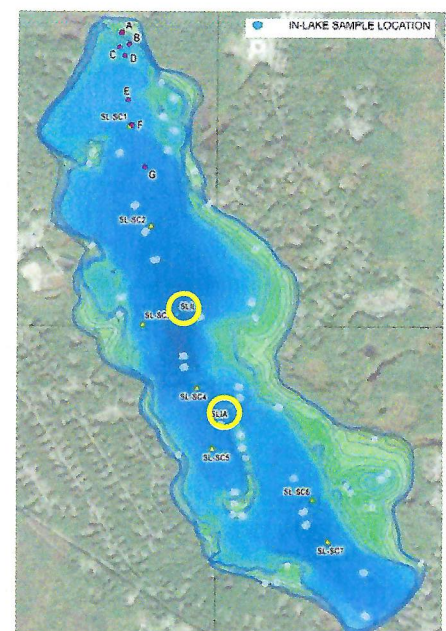


Monitoring Program – In-Lake Water Quality Sampling

- In-lake sampling focused at SLIL (deep location)
 - Continuous loggers for temperature and water depth at surface and bottom
 - Continuous logger for chlorophyll a at surface
 - Monthly water quality samples at surface, mid-, and bottom depths
 - Monthly vertical profiles of temperature, dissolved oxygen, and specific conductance
- Additional vertical profiles at SLIA
 - Additional in-lake location with occasional measurements



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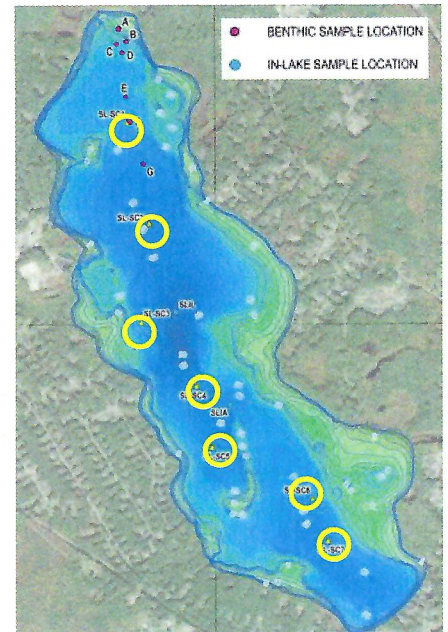


Monitoring Program – In-Lake Sediment Sampling

- Macroinvertebrate grab sampling at seven locations of varying depth
 - Conducted September 2021
- Sediment core sampling at seven locations
 - Conducted May 2022
 - Analyzed vertical profiles using a phosphorus fractionation approach



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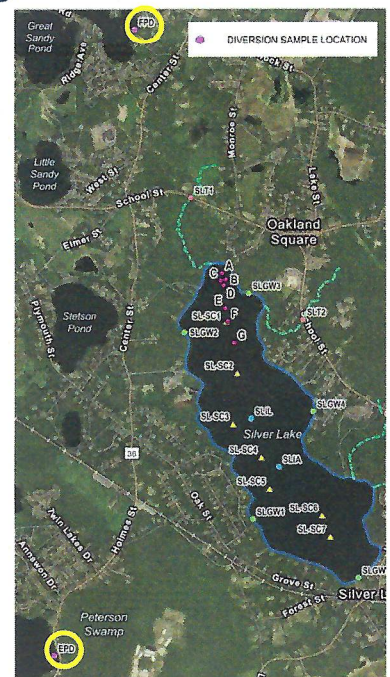


Monitoring Program – Diversion Water Quality Sampling

- Sampling in source ponds for two diversions to Silver Lake
 - Three visits to each source pond during active flow diversion in 2022 (East Monponsett was only diversion activated)
 - Collection of surface water quality samples
 - Vertical profiles of temperature, dissolved oxygen, and specific conductance



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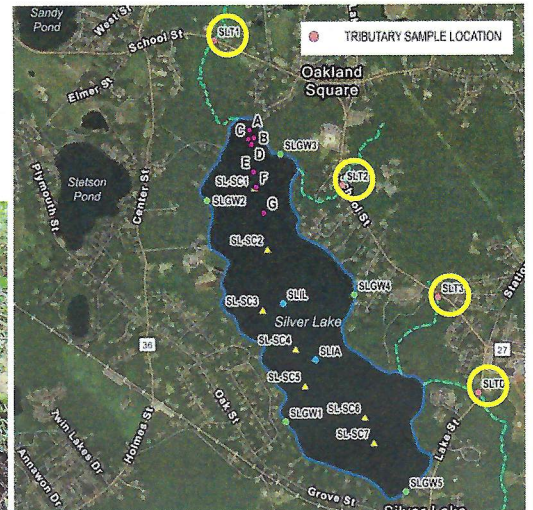


Monitoring Program – Stream Water Quality Sampling

- Sampling in three tributaries and outlet
 - Continuous dataloggers for temperature and water depth
 - Monthly collection of water quality samples
 - Monthly measurement of discharge



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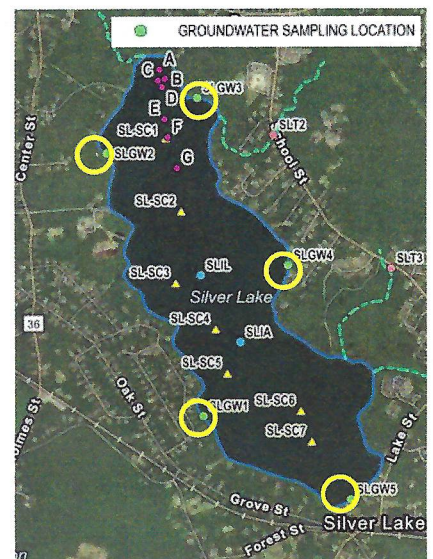


Monitoring Program – Groundwater Sampling

- Sampling along five shoreline segments
 - May and October 2022
 - Water quality samples from composite of three locations along each segment
 - Measurement of seepage rate at two locations along each segment



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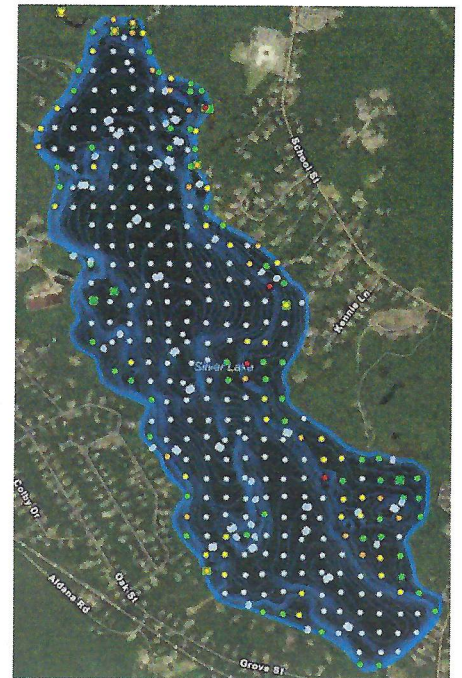


Monitoring Program – Mapping

- More than 300 locations mapped in September 2022
- Lake was full at time of mapping
- Bathymetry (water depth)
- Aquatic plants

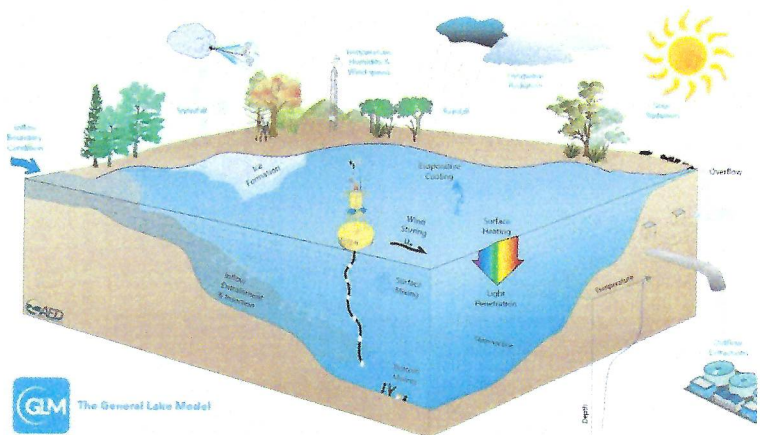


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Monitoring Program – Lake Modeling

- Developed lake model that included these components:
 - Water balance
 - External loads of N and P
 - Internal loads of N and P
 - Losses of N and P
 - N and P in-lake transformation
 - Lake temperature
- Model calibrated to observed conditions
- May be used to test management scenarios going forward



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Monitoring Program - Results

- Results of the monitoring program and modeling undergoing review
- Preliminary draft report complete
- More updates to come soon



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Thanks!

Questions?



Call Us:

Matt Ladewig
401.330.1204



Email Us:

mladewig@TRCcompanies.com



Visit Us:

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