revised 3/15/17 Martha's Vineyard Coastal Ponds - Status Report - 2017 DRAFT																					
		Pond/ Watershed				Land Use			Water Quality		Nitrogen Load Limits						Mass Estu	Mass Estuaries Project			
System		Pond Area (acres)	Watershed Area (acres)	Towns contributing to Watershed	Current Houses (at time of MEP)	Projected Houses (at buildout)	total houses	Present Eelgrass Condition	Other Conditions/ Symptoms	Overall Rating				Load Reduction Required	Status	* Year MEP	Key Data			Remediation efforts	
	(ac										Limit	Current (as of MEP completion)	Projected	Current (as of MEP completion)		completed	TMDL (kg/day)	TMDL (kg/yr)	TMDL (lbs/day)	TMDL (lbs/yr)	
Cape Poge	15	60	816	Edgartown	45	54	99	Fair	Eelgrass coverage fluctuating.	Good	45,500	11,200	12,600	0%							shellfish aquaculture
Chilmark Pond	2	41	3137	Chilmark	452	228	680	None	Poor tidal exchange. Over its nitrogen limit. No historical eelgrass presence, goal is to restore infaunal habitat	Impaired	5,653	6,241	6,389	Chilmark East requires 22%		Apr-15	15.50	5657.50	34.14	12461.45	
Edgartown Great Pond	8	90	4505	Edgartown West Tisbury	910	1059	1969	Variable	Eelgrass coverage fluctuates. Poor tidal exchange. Oyster disease. Over its nitrogen limit	Impaired	11,053	7,686	17,763	18%		Dec-08	46.06	16812.63	101.46	37032.22	upgraded sewage treatment plant, some residences in watershed connected to sewer shellfish aquaculture regularly scheduled inlet openings
Farm Pond	2	12	402	Oak Bluffs	213	37	250	Fair	Eelgrass declining. Poor tidal exchange. Over its nitrogen limit	Impaired	1,604	2,179	2,610	26%		Nov-10	4.13	1508.55	9.10		plans underway to replace culvert to improve flushing
James Pond	2	10	400	West Tisbury	63	61	124	None	Periodic blue-green algae. Excess algae. Poor tidal exchange. Over its nitrogen limit	Impaired	200	600	1,050	67%							
Katama Bay	17	'00	4500	Edgartown	1610	657	2267	Patchy	New breach, better flushing. Large mooring fields.	Compromised	54,700	23,200	30,800	0%							shellfish aquaculture
Lagoon Pond	5	73	3889	Oak Bluffs Tisbury West Tisbury	2089	1011	3100	Poor	Deep water hypoxia. Southern end is eutrophic. Over its nitrogen limit	Impaired	11,177	17,081	24,062	35%		Jun-10	74.07	27034.09	163.14	59546.45	shellfish aquaculture goose egg addling
Menemsha Pond	6	70	1840	Aquinnah Chilmark	392	165	557	Good	Eelgrass cover decreases in Stonewall.	Good	31,600	12,950	16,860	0%		March-17?					
Oak Bluffs Harbor	30	5.3	382	Oak Bluffs	1069	165	1234	None	Heavy recreational boat use. Stormwater discharges. Sunset Lake over its nitrogen limit	Impaired (Sunset Lake)	6,026	4,834	5,926	25%		May-13	22.63	8259.59	49.84	18192.92	sewered downtown channel dredging
Oyster Pond	2	00	2800	Edgartown West Tisbury	137	209	346	None	Poor tidal exchange. Oyster disease. Over its nitrogen limit	Compromised	1,800	3,600	5,200	50%							
Pocha Pond	1	15	900	Edgartown	139	68	207	None	Highly organic bottom sediment.	Compromised	5,680	2,500	3,300	0%							shellfish aquaculture
Sengekontacket Pond	7	16	4440	Edgartown Oak Bluffs West Tisbury	1628	554	2182	Poor	Excess large drift algae. Eelgrass not re- colonizing. At nitrogen limit.	Impaired (Major's Cove and Trapps)	11,051	13,713	18,306	19.41% overall		Jan-11	34.56	12612.58	76.11	27781.00	shellfish aquaculture
Squibnocket Pond	6	00	1229	Aquinnah Chilmark	85	211	296	None	Poor tidal exchange. Over its nitrogen limit	Compromised	3,400	3,920	4,400	13%		March-17?					
Tashmoo Pond	2	69	2658	Oak Bluffs Tisbury West Tisbury	963	494	1457	Poor	Southern basin is eutrophic. Large mooring fields. Under nitrogen limit.	Impaired	6,244	9,163	13,203	32%		Feb-15	35.55	12975.75	78.30	28580.95	regular inlet dredging proposed sewer expansion BOH regulations requiring I/A systems in new development, upgrades
Tisbury Great Pond	8	45	11102	Chilmark West Tisbury	1101	689	1790	None	Poor tidal exchange. Oyster disease. Over its nitrogen limit	Impaired	13,578	16,783	19,325	19%		May-13	62.78	22916.16	138.29	50476.12	shellfish aquaculture regular pond openings

current houses- number of houses in the watershed presently, determined from aerial photograph interpretation, Mass GIS included all structures over 400 sq ft, MVC data only included buildings assumed to be primary structures.

projected houses at buildout- estimated based on parcel's current use code, conservation status, pesence of wetlands, lot size relative to min. zoning, and presence of buildings

eel grass- indicator species, trends in distribution to assess habitat stability related to water quality

overall rating- Index measures the nutrient-related health of the pond it is the sum of five health indicators: nitrogen (organic and inorganic), dissolved oxygen, algal pigments, and water clarity

nitrogen load limit- nitrogen level at which pond can maintain eelgrass or healthy benthic habitat. Taken from MEP if available, estimated by MVC using Buzzard's Bay index if MEP not available

nitrogen current- the present nitrogen load taken from MEP if available, estimated by MVC using Buzzard's Bay index if MEP not available

Nitrogen projected- nitrogen load projected to be added by additional buildout

load reduction- amount of nitrogen needed to be reduced to return pond to healthy state and meet water quality standards

TMDL- (Total Maximum Daily Load) the maximum amount of a pollutant that a body of water can receive while still meeting water quality standards

*status key

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MEP completed

revised 3/15/17

1 preliminary data collected

2 report in progress

3 draft report

4 final report completed