BCWMC Reviews of Linear Projects		2017-33 Metro Transit C Line BRT	2018-02 Hwy 55 Frontage Road Reconstruction	2018-04 Golden Valley 2018 PMP	Luce Line Regional Trail Reconstruction	1 John Avenue Reconstruction 1 2018-08 Kilmer Park Street Reconstruction	2018-09 CenterPoint Energy 2018 MBL C GV West 2018-11	CenterPoint Energy Boone Avenue N Mill 2018-15 Firm Highway S, TH SS Weet Improvements	2. 2018-18 CenterPoint Energy 2018 MBLC GV Central 5. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	MCES Golden Valley Interceptor August 2017 to September 2018 totals	nber 2018 meeting. ^	2018-22 Pyrnouth Sanitary and Storm Sewer Rehab 2018-30 Winpaper Drive Infrastructure Impr.	2018-31 of SSAH 9 (Rockford Road) and 1-494 Interchange 2019-07	o Golden Valley 2019 PMP 2019-04 CenterPoint MBLSW Winnetka Avenue	2019-05 Candlelight Terrace Street Reconstruction	2019-10 Ridgedale Drive Improvements 2019-12	Theodore Wirth Golf Course Cart Paths 2019-28 5 pymouth 2020 Street Construction	2020-01 S Golden Valley 2020 PMP 2020-04	CenterPoint Energy 2020 MBLNW Winnetka	1 19484 2020 Unity Reconstruction 1 2020-12 1 2020-13 1 2020-13	West Broadway Ave (CSAH81) Bridges Recon. October 2018 to October 2020 totals	rer 2020 meeting. ^	96 Inving Avenue Sanitary Sewer Replacement Inving Avenue Sanitary Sewer Replacement Plot of the Community	o Crystal 2021 Utility Reconstruction (Louisiana Avenue Culvert)	2021-07 Plymouth 2021 Street Rehabilitation 2021-28 Scotlan Value 2072 BMP	2021-32 Crystal 2022 Utility Reconstruction	2021-35 Plymouth 2022 Street Reconstruction 2021-36	Peninsula Road Street and Utility Improvements 2022-03 n Vickburg Lane Improvements	November 2020 to October 2022 totals	2022-21 Highway SS Frontige Road Pedestrian Tunnel	2022-26 Crystal Utility Reconstruction	2023-02 Plymouth 2023 City Center Pavement Rehabilitation	2003-03 actos Fylmouring Control of State of Sta	2023-23 Hopkins Crossroads Trail Improvement	2024-01 Crystal 2024 Utility Reconstruction	2024-2 Plymouth Street Rehabilitation S 2024-03 Plymouth Bouleward Rehabilitation	2024-07 Golden Valley Country Club Underground Distributio	2022-09 date awarine and intesay Street inprovements. November 2022 to October 2024 totals 89-90-90-90-90-90-90-90-90-90-90-90-90-90	TOTAL
	Project Disturbance (acres) Existing Impervious (acres)	5.50	1.50	5.37 1	76 2.90	1.70	1.80 0.	0 0.92	1.77 0.8	39.94	iem.	0.67 3.90	5 01 5	90 2.50	0.05	9 04 2 3	25 12.91	1.90 4.	50 4.09	6.08 3.6	118.79		2.96 4.4							2.70 5.0	9 2.06	9.50 2.4	11 0.00	0.60 5.53	1 2 20 2	77 22 11 72	0.00 5.63	87.02 215.4	42
	Proposed Impervious (acres)								1.77 0.8											6.08 3.4			2.04 6.7															84.59 214.8	
BCWMC Project Review Data	Change in Impervious (acres)								0.00 0.0											1 0.00 -0.2			0.00 -0.10															1 -2.43 -0.52	
	New Impervious (acres)								0.00 0.0											0.00 -0.2			0.00 0.00							0.30 -0.	0.00	0.10 0.2	24 0.00	0.20 0.00	0.10	0.20 0.73	0.00 0.00	1.85 7.27	-
	Reconstructed Impervious (acres)	E 00	1.15	E 07 0	72 2.00	4.50	1.00 0.	0.00	1.77 0.8	24.77	at	0.00 0.00	E 01 E	64 2.50	0.00	0.00 1	36 0.30	4.22 4	EO 1.74	6.08 2.5	60.76		2.04 0.9							2.70 4.6	0 2.06	0.10 0.2	16 0.00	0.20 0.00	3 10	0.00 9.77	0.00 0.00	32.62 141.4	40
	Total New and Reconstructed Impervious (acres)								1.77 0.8											6.08 2.5			2.04 0.9							2.70 4.0	0 2.06	0.80 1.1	40 0.00	0.00 5.0	2.10	0.30 0.40	0.00 4.20	34.47 148.7	74
Assuming Previous (2015) BCWMC Requirement:	Trigger MIDS at 1 MIDS Treatment: Capture & retain larger of 1.1 inches off the net increase in impervious – or – acre of new/fully reconstructed impervious (acre-feet). Follow flexible treatment options if volume reduction is not feasible or not allowed. (Assumed larger of two for figures to impervious larger of two for figures to impervious reconstructed impervious reconstructed impervious reconstructed impervious reconstructed impervious reconstructed impervious reconstructed reconstr								0.08 0		BCW									0.28 0.1		e BC			0.05 0.21													9 1.50 6.36	
Assuming Current BCWMC Requirement:	Trigger treatment at 1 acre of net new impervious area (acre-feet). Follow flexible treatment options if volume reduction is not feasible or not allowed.	0	0	0 (0	0	0	0	0 0	0.00	reviewe	0 1 0	0.16	0 0	0	0 0	1 0	0 (0	0 0	0.16	sly review	0 0	0	0 0	0	0 0	0	0.00	0 0	0	0 0	0	0 0	0	0 0	0 0	0.00 0.16	6
Assuming Current MPCA MS4 General Permit Requirement:	Trigger treatment at 1 are or more of 1 are or which water quality volume must be calculated as the larger of 1 inch times the new impervious surface or 0.5 inches times the sum of the new and the fully reconstructed impervious surface (acre-feed) (Assumed larger of two for figures to right.) If not feasible, maximize the treatment of the water quality volume prior to discharge from the MS4.*										₹									0.25 0.1										0.13 0.:	0.90	0.00 0.0	36 0.00	0.00 0.23	0.13	0.00 0.40	0.00 0.18	8 2.21 6.64	4
	Volume Provided (acre-feet) 2 1 = Poor Soils 2 = High Groundwater 3 = Space (Right of Way) Constraints 4 = Inflitration & Inflow Concerns 5 = Drinking Water Management Areas 6 = Karst Areas 7 = Contaminated Soils 8 = Shallow Bedrock 9 = Other	More discussion and coordination needed with applicants to evaluate and determine whether any site constraints were present for each specific project.								_	More discussion and coordination needed with applicants to evaluate and determine whether any site constraints were present for each specific project.										0 0 0 0 -3 0 -3 0 0 0 0 0 0 0 0 0 0 0 0					evaluate		More discussion and coordination needed with applicants to evaluate and determine whether any site constraints were present for each specific project.											
Quality Treatment	Estimated Water Technique Continue C							2.05 9.38 1.35 5.14 8.15 3.20 0 1.64 3.15 1.53 45.2: 2.08 9.02 1.30 5.54 8.83 3.20 0 2.81 3.15 1.53 45.2: 0.04 -0.36 -0.05 0.20 0.68 0 0 1.17 0 0 0 0.96 -2 6.34 -1 -2 -2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						4.33 13.63 10.04 4.45 1.64 15.74 6.85 124.49 7.69 8.01 3.10 10.82 6.07 117.44 1.03 12.04 11.04 1								14.60 29.1 0.18 0.4 0 0	12 28.68 0.00 1.07 9.81 5.86 48.65 20.96 1.00 0.83 1.82 33.45 50 29.10 0.00 1.42 8.99 5.68 49.16 16.79 0.00 7.48 18.88 33.245 8 0.43 0.00 0.36 -0.82 -0.18 0.52 4.08 0.00 -0.55 4.33 -0.93 6 0% 0% -3 -3 0% 0% 0% -3 -3 -3																
¹ Trails and sidewa	TP Removal (%) ks and other miscellaneous disconnected impervious surfaces are exempt from BCWMC water quality performance goals												550%° -	0%	- 3	55%′ -		- 0	% 0%				0% 0%	0%	0% - 3	0%	- 0%	6 0%		- 3 -		0% 0%	6 0%	., .,	0%	0% 0%	0% - 3		

Trails and sidewalks and other miscellaneous disconnected impervious surfaces are exempt from BCWMC water quality performance goals. Adjacent pervious areas may provide some pretreatment or water quality treatment

Projects with site restrictions may not be required to "capture & retain" the water quality volume. These projects must follows BCWMC Flexible Treatment Options (FTOs).

Water quality treatment/pretreatment provided by project but documentation not submitted or not reviewed.

2018-02: Project included 5 new sump manholes for pretreatment. Drainage routed to existing ditches and wetlands along linear project which may also provide some water quality treatment and/or infiltration.

2018-07: Project included 18,905 cubic-foot Stormtech underground detention and infiltration system.

2018-08: Project included 18,905 cubic-foot Stormtech underground detention and infiltration system.

2018-09: Project included 1 new sump manholes for pretreatment.

2018-09: Project included 1 new sump manholes for pretreatment.

2019-00: Project included 1 new sump manholes for pretreatment and an underground filtration trench to provide water quality treatment and/or infiltration.

2019-00: Project included 2 new sump manholes for pretreatment.

^{2019-05:} Project included 4 new sump manholes for pretreatment. Drainage routed to existing stormwater ponds, which were improved as part of this project and provide water quality treatment. 2019-28: Project included 4 23 new sump manholes with SAFL baffles for pretreatment. 2020-01: Project included 1 new sump manhole for pretreatment.

^{2020-12:} Project included 1 new sump manhole for pretreatment.

^{2020-12:} Project included 1 new sump mannole ror pretreatment.
2020-13: Project was designed to maximized the amount of runoff that is routed to ditches and infield ponding areas in order to maximize pretreatment and water quality treatment.
2021-28: Project included 2 new sump manholes with SAFL baffles for pretreatment.
2021-35: Project included 5 new sump manholes with SAFL baffles for pretreatment
2022-12: Project included 1 new sump manhole for pretreatment.
2022-21: Project included 1 new sump manhole for pretreatment
2022-22: Project included iron enhanced filtration basin and 2 new sump manholes for pretreatment

^{2022-25:} Project included 1 new sump manholes for pretreatment 2023-26: Project included 4 new sump manholes for pretreatment 2023-23: Project included 1 new sump manhole for pretreatment. 2023-25: Project included 3 new sump manholes with SAFL baffles for pretreatment 2024-09: Project included 5 new sump manholes with SAFL baffles for pretreatment

⁴ Draft 90% designs for the project included 6 new sump manholes for pretreatment. However, the city asked that these be removed from the final design due to access and maintenance concerns, minimal effectiveness, and future stormwater improvement plans for the area.

⁵ No volume retained specifically as part of project, but a filtration basin proposed as mitigation for 2016 PMP project and 2017 PMP project.

⁶ Project included existing regional stormwater ponds, filtration basins, and swales within the construction limits that were utilized to demonstrate compliance to BCWMC requirements.

Water quality treatment provided as part of BCWMC Capital Improvement Program (CIP) Project CL-3 in conjunction with this project.

City of Plymouth was working with home owners to install two raingardens for additional water quality treatment

⁹ Where the entire water quality volume cannot be treated within the existing right-of-way, a reasonable attempt to obtain additional right-of-way, assements, or other permission cannot be provided cost effectively. If additional right-of-way, assements, or other permission to treat the stormwater during the project planning process must be made. Volume reduction practices are not required if the practices cannot be provided cost effectively. If additional right-of-way, assements, or other permission cannot be obtained, owners of construction activity must maximize the treatment of the water quality volume prior to discharge from the MS4.