Beaver Dam Lake Management District

3rd Ave & Jeffery Blvd Stormwater Improvements

City of Cumberland, Barron County, Wisconsin

Prepared by Emmons & Olivier Resources, Inc.

Job No.: 00909-0022

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Table 1. Comparison of Pre- versus Post-Construction Nutrient Loading

Project Location Id No.	Location	ВМР	Product	Implementation Date	Quantity	Units	Cost										
								P (lb/yr)						TSS (ton/yr)			
								Removal Rate (%) <sup>1</sup>	Pre-Construction Loading <sup>3</sup>	Post-Constru	ıction Loading	Estimated Post-Construction from Grant Application	Removal Rate (%) <sup>2</sup>	Pre-Construction Loading <sup>3</sup>	Post-Constru	ction Loading	Estimated Post-Construction from Grant Application
1	2495 Jeffery Blvd. (Goldsmith)	Hydrodynamic Separator - Contech CDS	CDS2025-5-C-624280-10	10/15/2019	1	1	\$22,000.00	25%	18.4	4.6	8.5	8.7	80%	3348.0	2678.4	4936.9	2615.0
2	1265 Jeffery Blvd. (Cifaldi)	Hydrodynamic Separator - Contech CDS	CDS3020-6-C-624280-20	10/25/2019	1	1	\$29,300.00	25%	15.5	3.9	8.5	6.7	80%	2823.1	2258.5	4330.9	2013.0
3	3rd Ave (City of Cumberland)	Hydrodynamic Separator - Contech CDS	CDS3030-6-C-624280-30	11/1/2019	1	1	\$34,000.00	25%	6.2	1.6	1.6	3.6	80%	1132.0	905.6	905.6	1100.0

<sup>1.</sup> P Removal Rate from Contech = 20% to 30%

<sup>2.</sup> TSS Removal Rate from Contech = 80%

<sup>3.</sup> The actual drainage for Project 1 increased from 26.82 acres to 70.70 acres, which was taken into account during the engineering & design phase.