

Complete Report (not including cost) Ver 2.1.0

Project: Depot_11th St
Date: 2/13/2020 4:17:01 PM

Site and Catchment Information

Analysis: BMP Analysis

| | |
|----------------------|----------------|
| Catchment Name | Depot_11th St |
| Rainfall Zone | Florida Zone 2 |
| Annual Mean Rainfall | 50.00 |

Pre-Condition Landuse Information

| | |
|----------------------------|---|
| Landuse | Low-Intensity Commercial: TN=1.13 TP=0.188 |
| Area (acres) | 8.72 |
| Rational Coefficient (0-1) | 0.68 |
| Non DCIA Curve Number | 93.00 |
| DCIA Percent (0-100) | 72.00 |
| Nitrogen EMC (mg/l) | 1.130 |
| Phosphorus EMC (mg/l) | 0.188 |
| Runoff Volume (ac-ft/yr) | 24.622 |
| Nitrogen Loading (kg/yr) | 34.306 |
| Phosphorus Loading (kg/yr) | 5.708 |

Post-Condition Landuse Information

| | |
|----------------------------|---|
| Landuse | Low-Intensity Commercial: TN=1.13 TP=0.188 |
| Area (acres) | 8.72 |
| Rational Coefficient (0-1) | 0.68 |
| Non DCIA Curve Number | 93.00 |
| DCIA Percent (0-100) | 72.00 |
| Wet Pond Area (ac) | 0.00 |
| Nitrogen EMC (mg/l) | 1.130 |
| Phosphorus EMC (mg/l) | 0.188 |
| Runoff Volume (ac-ft/yr) | 24.622 |
| Nitrogen Loading (kg/yr) | 34.306 |
| Phosphorus Loading (kg/yr) | 5.708 |

Catchment Number: 1 Name: Depot_11th St

Project: Depot_11th St

Date: 2/13/2020

Pervious Pavement Design

| | | | |
|--------------------------------------|----------------|--------------|-----------------|
| Surface Area of Pavement (acres) | 0.890 | | |
| Retention Volume (ac-ft) | 0.228 | | |
| Treatment Volume (in over watershed) | 0.349 | | |
| Pavement Type | Thickness (in) | Storage (in) | Storage (ac-ft) |
| Permeable Pavers | 3.13 | 0.313 | 0.023 |
| #57 rock(non-calcareous) | 4.00 | 0.840 | 0.062 |
| #4 rock | 8.00 | 1.920 | 0.142 |
| Total | | 3.073 | 0.228 |

Watershed Characteristics

| | |
|---------------------------|----------------|
| Catchment Area (acres) | 8.72 |
| Contributing Area (acres) | 7.830 |
| Non-DCIA Curve Number | 93.00 |
| DCIA Percent | 72.00 |
| Rainfall Zone | Florida Zone 2 |
| Rainfall (in) | 50.00 |

Surface Water Discharge

| | |
|--------------------------------------|----|
| Required TN Treatment Efficiency (%) | |
| Provided TN Treatment Efficiency (%) | 37 |
| Required TP Treatment Efficiency (%) | |
| Provided TP Treatment Efficiency (%) | 37 |

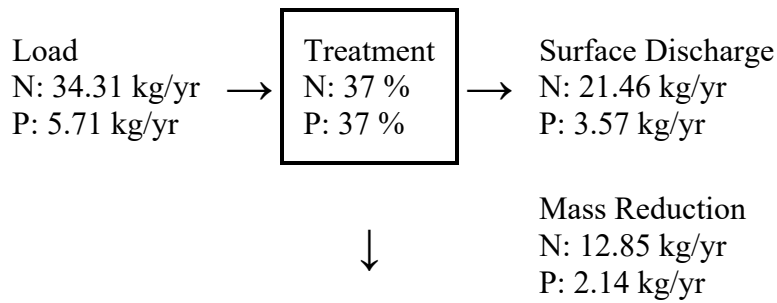
Media Mix Information

| | |
|-----------------------|---------------|
| Type of Media Mix | Not Specified |
| Media N Reduction (%) | |
| Media P Reduction (%) | |

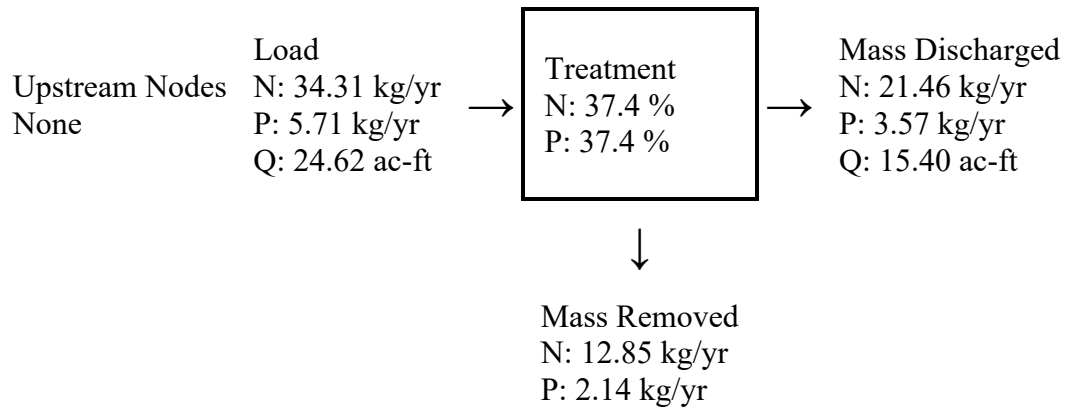
Groundwater Discharge (Stand-Alone)

| | |
|-------------------------|--------|
| Treatment Rate (MG/yr) | 0.000 |
| TN Mass Load (kg/yr) | 12.847 |
| TN Concentration (mg/L) | 0.000 |
| TP Mass Load (kg/yr) | 2.137 |
| TP Concentration (mg/L) | 0.000 |

Load Diagram for Pervious Pavement (stand-alone)



Load Diagram for Pervious Pavement (As Used In Routing)



Summary Treatment Report Version: 2.1.0

Project: Depot_11th St

Date:2/13/2020

Analysis Type: BMP Analysis

BMP Types:

Catchment 1 - Pervious

Pavement

Routing Summary

Catchment 1 Routed to Outlet

Summary Report

Nitrogen

Surface Water Discharge

| | | |
|---------------------------|-------------|-------------|
| Total N post load | 34.31 kg/yr | |
| Percent N load reduction | 37 % | |
| Provided N discharge load | 21.46 kg/yr | 47.32 lb/yr |
| Provided N load removed | 12.85 kg/yr | 28.33 lb/yr |

Phosphorus

Surface Water Discharge

| | | |
|---------------------------|-------------|-------------|
| Total P post load | 5.708 kg/yr | |
| Percent P load reduction | 37 % | |
| Provided P discharge load | 3.57 kg/yr | 7.87 lb/yr |
| Provided P load removed | 2.137 kg/yr | 4.713 lb/yr |