

Joliet Junior College Lake Cleanup and Management

Below is a brief description of the type, purpose, and function of each proposed BMP; the nonpoint source pollutants to be controlled; and characteristics of the site for each BMP location proposed by Joliet Junior College.

Location #1

The BMP proposed for location #1 is an oil and grit separator known as the SNOUT manufactured by Best Management Products Inc. The product will be installed in a new larger catch basin and will capture floatables, trash, free-oils, sediment and grit. It will be installed in the last storm sewer structure along a 30" diameter storm sewer that is directly tributary to the Joliet Junior College Lake. There is 7.06 acres of developed property tributary to this BMP. The area contains 54% impervious surfaces consisting of rooftops and sidewalks with the remaining 46% consisting of grass. In addition to the SNOUT the outfall of this storm sewer has structurally failed and will be replaced to prevent future erosion.

Location #2

The BMP proposed for location #2 is a catch basin insert filter known as the FloGuard Plus manufactured by Kristar Enterprises Inc. The FloGuard will be installed in two inlets that are directly tributary to the Joliet Junior College Lake. They will remove suspended sediment, floatable trash and hydrocarbons from the stormwater runoff. Due to the shallow depth of the storm sewer system in this location the use of a hydrodynamic separator or a SNOUT is not possible. There is 3.35 acres of developed property tributary to this BMP. The area contains 66% impervious surfaces consisting of parking lot, rooftops and sidewalks with the remaining 34% consisting of grass.

Location #3

The BMP proposed for location #3 is a hydrodynamic separator known as the FloGuard Dual Vortex manufactured by Kristar Enterprises Inc. The Dual Vortex will be installed along a drainage ditch that is tributary to the Joliet Junior College Lake. It will remove suspended sediment, floatable trash and hydrocarbons from the stormwater runoff. There is 3.29 acres of developed property tributary to this BMP. The area contains 83% impervious surfaces consisting primarily of parking lot and sidewalks with the remaining 17% consisting of grass.

Prepared By: Ken Huhn, P.E. SEC Group Inc.