COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3002-10

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 604.04.04.02

FOR INTERNAL CDOT USE

Material code description full name: Storm Water Separator, High Flow

PART 1

Product name: BaySaver Separation System	Product category: Drainage\Storm Water Separator\High Flow Hydrodynamic
Product representative (name & address): Attn: H. Rex Hansen, PE BaySaver Technologies, Inc. 13214 NW 33rd Ave Vancouver, WA 98685 Phone: (360) 518-6632 FAX: (301) 829-3747	Manufacturer (name & address): Attn: Alex Weisz BaySaver Technologies, Inc. 1302 Rising Ridge Rd Mount Airy, MD 21771 Phone: (800) 229-7283 FAX: (301) 829-3747
Web-site address: www.baysaver.com	Web-site address: www.baysaver.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

The BaySeparator System is a structural BMP, used for stormwater quality treatment of non-point source stormwater runoff. The system is comprised of 2-chambers (one on-line and one off-line) and a 3-level flow-splitter which allows for full treatment of the the MTR (maximum treatment rate) and insures that captured pollutants are not resuspended during MHR (maximum hydraulic rate) flow events. The unit is designed to remove gross pollutants, oils/greases and at least 80% of the suspended solids load (based on full-scale, third party testing using F-95 surrogate media). The maximum treatment flow rates (0-100 CFS) and maximum hydraulic rates (0-1000 CFS) for the various units are listed in the BaySeparator Tech and Design Manual.

There are six BaySaver Unit models and various model/system sizes available based on maximum treatment flow and then the applicable total system volume, sediment capacity, and floatable capacity. These are: 1/2K, 1K, 3K, 5K, 10K, and XK.

Restrictions, (installation and/or use):

None

Use of the product, (be specific to CDOT highway activities only):

The BaySaver system is designed to remove suspended solids, oils and debris from stormwater runoff.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

The BaySaver separation system provides low capital and maintenance costs, excellent flow rate capacities while eliminating re-suspension of sediment. The BaySaver is a smaller unit using less area and material than other stormwater devices causing less of a footprint. For site applications where traditional land-use BMPs are not practical due to size and cost constraints, the BaySeperator system can be used to effectively treat stormwater quality at a lower cost-per-treated cfs than any other structural BMP available of comparable performance.

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- ☐ CDOT :
- ☐ ASTM :
- ☒ AASHTO : H-20
- ☐ FHWA :
- ☐ other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : University of Minnesota, St. Anthony Falls Laboratory (February 2006)
- ☒ other : University of Maryland (December 22, 2008)

State DOT Approvals, (current documentation required):

KS, MD, NV, NM, NC, TX, VA

Sample submitted: ☐ yes ☒ no ☐ n/a | Materials Safety Data Sheets (MSDS): ☐ yes ☒ no ☐ n/a

Notes/Additional Comments

New Jersey approval and supporting documentation is posted at http://www.state.nj.us/dep/stormwater/treatment.html (NJCAT report)
More information, (including test data and the Tech & Design manual), can be found on the manufacturer's website; www.baysaver.com