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VERIFICATION STATEMENT

GLOBE Performance Solutions

Verifies the performance of

Atlan FlowFilter

Developed by Atlan Stormwater
Augustine Heights, Queensland, Australia

Registration: GPS-ETV_VR2026-05-12

In accordance with

ISO 14034:2016

Environmental Management —
Environmental Technology Verification (ETV)

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Verification Overview

This Environmental Technology Verification (ETV) of the Atlan FlowFilter® stormwater treatment system was conducted by Globe Performance Solutions (GPS) in alignment with the principles and framework of ISO 14034:2016 - Environmental Management - Environmental Technology Verification (ETV).

The verification involved an independent assessment of the available evidence supporting the performance of the FlowFilter system for the treatment of urban stormwater runoff. The assessment focused on the system's ability to reduce suspended solids, nutrients, metals, and gross pollutants under defined operating conditions.

The verification was based on the review and evaluation of multiple independent datasets and supporting technical documents, including field monitoring data, laboratory analytical results, SQIDEP evaluation reports, supporting Body of Evidence (BOE) documentation, controlled laboratory testing conducted by the Water Research Laboratory (WRL), rainfall and event monitoring records, and manufacturer technical documentation.

The field monitoring datasets included multiple storm events collected under real operating conditions and represented a range of influent water quality characteristics, hydraulic loading conditions, and environmental variability. These datasets were supplemented by controlled laboratory testing to support interpretation of treatment performance under defined conditions. The verification process included independent review of the available datasets and supporting documentation, assessment of data quality, traceability, and relevance, evaluation of pollutant removal performance across multiple datasets, cross-validation of observed performance trends, and independent interpretation of the findings in accordance with ISO 14034 verification principles.

The verification was conducted using existing evidence and did not involve generation of primary testing data by GPS. Verification conclusions presented in this statement are based solely on the independent evaluation of the available information and supporting datasets. This verification was not conducted under the Canadian Procedure for Field Testing of Stormwater Filtration Manufactured Treatment Devices (PAS), the Washington State Technology Assessment Protocol Ecology (TAPE), or any jurisdiction-specific approval or certification program. However, the verification report includes a comparative alignment assessment between the ISO 14034-based verification methodology applied in this verification and relevant PAS framework elements. The verified performance presented in this Verification Statement applies only within the defined operating conditions, hydraulic design envelope, and conditions of applicability described in the associated ETV Technical Report.

Technology Description and Application

The Atlan FlowFilter® is a proprietary cartridge-based stormwater treatment system designed to improve the quality of urban stormwater runoff prior to discharge into receiving waterways or stormwater infrastructure systems. The technology is intended for the treatment of runoff generated from impervious surfaces associated with commercial, industrial, transportation, and urban development applications.

The system operates as an offline stormwater treatment device and is typically installed within underground concrete or prefabricated vault structures connected to stormwater drainage networks. Under normal operating conditions, a portion of the stormwater flow is diverted into the treatment system, where sedimentation and filtration processes are used to remove pollutants from the runoff

stream. Flows exceeding the defined treatment capacity may bypass the treatment unit depending on the system configuration and hydraulic conditions.

The FlowFilter incorporates a sedimentation sump and multiple replaceable filter cartridges configured within the treatment chamber. Incoming stormwater first enters the sump zone, where coarse sediments and gross pollutants are captured through gravitational settling and flow reduction. Water then passes through the filtration cartridges, where suspended solids and associated pollutants are removed through physical and physicochemical treatment mechanisms. The treatment processes associated with the FlowFilter include sedimentation, depth filtration, adsorption, and precipitation mechanisms. These processes collectively contribute to the removal of suspended solids, particulate-bound nutrients, metals, and gross pollutants from stormwater runoff. Removal performance is influenced by factors including influent water quality characteristics, hydraulic loading conditions, filter media condition, and system maintenance practices.

The FlowFilter is designed to operate within a defined hydraulic envelope. Typical operating conditions include a nominal treatment flow rate of approximately 4 L/s per filter cartridge and a minimum hydraulic head requirement of approximately 250 mm to maintain effective flow through the filtration media. System treatment capacity is scalable depending on the number and configuration of cartridges installed within the treatment structure.

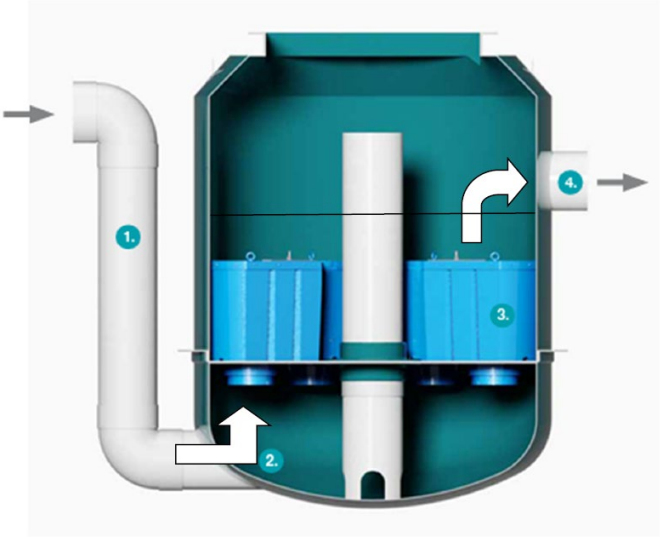

Figure 1. Atlan FlowFilter Schematic Cross-section

The technology is intended for long-term operation with periodic maintenance. Routine maintenance activities include inspection of the treatment chamber, removal of accumulated sediment and debris, and cleaning or replacement of filter cartridges as required. Full cartridge replacement is typically performed at intervals dependent on site-specific loading conditions and operational requirements.

The verification presented in this statement is based on evaluation of the FlowFilter under conditions generally representative of urban stormwater runoff from impervious surfaces. Verified performance applies only under the defined operating conditions and conditions of applicability described in the associated ETV Technical Report.

Performance Conditions

The verified performance presented in this Verification Statement is applicable under defined operating and environmental conditions representative of the datasets evaluated during the Environmental Technology Verification (ETV) process.

The Atlan FlowFilter® is designed to operate within a defined hydraulic envelope and treatment capacity. Verified performance is applicable when the system is installed and operated in accordance with the manufacturer's specifications and recommended operating conditions. This includes operation within the defined treatment flow ranges, provision of adequate hydraulic head to maintain flow through the filtration media, and proper configuration of inlet, outlet, bypass, and treatment flow control components.

The system is typically configured as an offline stormwater treatment device in which a portion of stormwater runoff is diverted through the treatment chamber while flows exceeding the design treatment capacity may bypass the system. Verified performance therefore applies only to flows treated within the defined hydraulic design capacity and does not represent performance under bypass or exceedance conditions.

The performance evaluation is based on field monitoring data collected under real stormwater conditions, supplemented by laboratory testing conducted under controlled conditions. The evaluated datasets include multiple rainfall events representing variability in storm intensity, duration, influent pollutant concentrations, hydraulic loading conditions, and environmental factors typical of urban runoff from impervious surfaces. Performance is influenced by several factors, including influent water quality characteristics, suspended solids concentration, particle size distribution, the proportion of particulate-bound versus dissolved pollutants, hydraulic loading conditions, residence time within the system, and filter media condition. Variability in treatment performance across different storm events and operating conditions is inherent to stormwater treatment systems and has been considered in the interpretation of verified performance.

Sustained treatment performance is dependent on appropriate installation, routine inspection, sediment and debris removal, and periodic maintenance or replacement of filtration cartridges in accordance with manufacturer recommendations. Failure to maintain the system under the specified operating conditions may result in reduced treatment effectiveness. The verified performance presented in this Verification Statement applies only under conditions broadly consistent with those represented in the evaluated datasets and supporting technical documentation. Application of the results to substantially different hydraulic, environmental, or influent conditions should be undertaken with consideration of site-specific factors and engineering judgment.

Performance Claims

Performance Claim 1 - Total Suspended Solids (TSS)

Based on the independent evaluation of field monitoring data, laboratory testing results, SQIDEP evaluation documentation, and supporting technical evidence, the Atlan FlowFilter® demonstrated Total Suspended Solids (TSS) removal typically in the range of approximately 90% to 98% under defined operating conditions.

The verified performance reflects multiple monitored storm events and varying influent conditions representative of urban stormwater runoff from impervious surfaces. The observed TSS reduction is

associated primarily with sedimentation and depth filtration processes within the treatment system. Performance variability across datasets reflects differences in influent sediment concentration, particle size distribution, hydraulic loading conditions, and event-specific environmental factors. Verified performance applies only within the defined hydraulic design envelope and operating conditions described in this Verification Statement and the associated ETV Technical Report.

Performance Claim 2 - Total Phosphorus (TP)

Based on the independent evaluation of available evidence, the Atlan FlowFilter® demonstrated Total Phosphorus (TP) removal typically in the range of approximately 70% to 90% under defined operating conditions.

The verified performance is supported by field monitoring data, SQIDEP evaluation results, laboratory analytical data, and controlled laboratory testing. Phosphorus removal is associated primarily with the capture of particulate-bound phosphorus fractions through sedimentation and filtration processes, together with adsorption and physicochemical interactions within the filter media. Observed variability in TP removal performance reflects differences in influent phosphorus concentrations, particulate versus dissolved phosphorus fractions, hydraulic conditions, and event-specific stormwater characteristics.

Performance Claim 3 - Total Nitrogen (TN)

Based on the independent evaluation of available evidence, the Atlan FlowFilter® demonstrated Total Nitrogen (TN) removal typically in the range of approximately 40% to 50% under defined operating conditions.

The verified performance is supported by field monitoring data, laboratory testing, SQIDEP evaluation documentation, and supporting technical evidence. Nitrogen removal performance is influenced by the proportion of particulate-bound versus dissolved nitrogen fractions present in the influent stormwater. The evaluated datasets demonstrated variability in TN removal across sampling events, including occasional event-specific increases in outlet TN concentrations. This variability is consistent with the behavior of filtration-based stormwater treatment systems operating under variable environmental and hydraulic conditions.

Performance Claim 4 - Metals Removal

Based on the independent evaluation of field monitoring data, laboratory testing results, SQIDEP evaluation documentation, and supporting technical evidence, the Atlan FlowFilter® demonstrated removal of particulate-associated metals under defined operating conditions. Verified performance includes lead removal typically in the range of approximately 80% to 90% and zinc removal typically in the range of approximately 40% to 60%.

Metals removal performance is associated primarily with the capture of particulate-bound metals through sedimentation and filtration processes. Observed variability in removal efficiency reflects differences in influent concentrations, the proportion of dissolved versus particulate-bound metals, hydraulic conditions, and event-specific stormwater characteristics.

Performance Claim 5 - Gross Pollutant Removal

Based on the independent evaluation of available evidence, the Atlan FlowFilter® demonstrated effective removal of gross pollutants through physical capture and sedimentation mechanisms under defined operating conditions.

The system incorporates a sedimentation sump and inlet configuration designed to facilitate the retention of coarse debris and gross pollutants prior to filtration. Field observations, operational documentation, and supporting evaluation data indicate effective retention of gross pollutants within the treatment chamber under normal operating conditions. Gross pollutant removal performance is influenced by hydraulic loading conditions, maintenance frequency, and overall system configuration. Under conditions exceeding the defined treatment capacity, bypass of untreated flows may occur depending on the hydraulic design and installation configuration.

Performance Results

The performance results presented in this Verification Statement are based on the independent evaluation of multiple datasets, including SQIDEP evaluation reports, supporting Body of Evidence (BOE) documentation, field monitoring data collected under operational stormwater conditions, accredited laboratory analytical results, controlled laboratory testing conducted by the Water Research Laboratory (WRL), and supporting technical documentation. The evaluated field monitoring datasets included multiple rainfall events representing a range of hydraulic loading conditions, influent pollutant concentrations, storm durations, and environmental conditions typical of urban stormwater runoff from impervious surfaces. These field datasets were supplemented by controlled laboratory testing to support interpretation of treatment performance under defined operating conditions.

Across the evaluated datasets, the Atlan FlowFilter® demonstrated consistently high removal of Total Suspended Solids (TSS), with outlet concentrations significantly reduced relative to influent conditions across most monitored events. The data also demonstrated measurable reductions in nutrients, including Total Phosphorus (TP) and Total Nitrogen (TN), together with removal of particulate-associated metals such as lead and zinc. Gross pollutant capture performance was supported through field observations, system configuration, and SQIDEP evaluation findings.

The evaluated datasets demonstrated variability in treatment performance across individual storm events and monitored parameters. This variability is consistent with real-world stormwater treatment conditions and reflects differences in influent water quality, pollutant loading, rainfall intensity, hydraulic conditions, residence time, and the proportion of particulate-bound versus dissolved pollutant fractions. Laboratory testing results generally supported the performance trends observed during field monitoring activities. Controlled laboratory testing provided additional validation of treatment mechanisms and performance behavior under defined hydraulic and pollutant loading conditions, while field monitoring reflected actual operational variability encountered under real stormwater conditions.

Independent review of data quality documentation, including laboratory accreditation, analytical methodologies, QA/QC procedures, chain-of-custody records, event qualification criteria, and sampling documentation, indicated that the datasets were of sufficient quality and traceability to support independent verification of the performance claims presented in this Verification Statement. The collective body of evidence demonstrates that the Atlan FlowFilter® is effective in reducing suspended solids and associated pollutants from urban stormwater runoff when operated within the defined hydraulic design envelope and maintained in accordance with manufacturer recommendations.

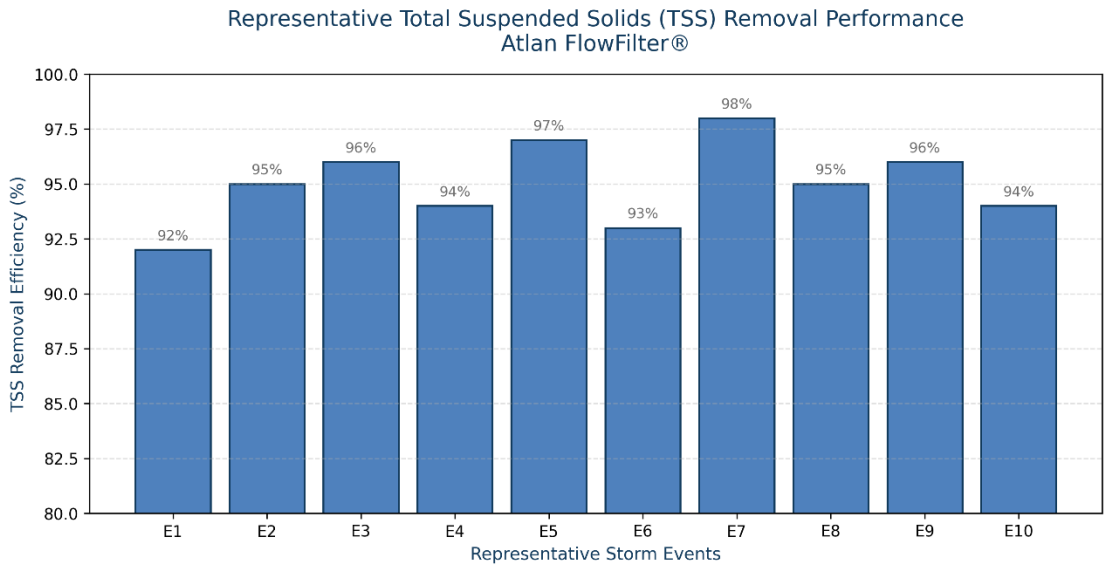

Figure 2. Representative TSS removal efficiencies based on evaluated field monitoring datasets and supporting evidence reviewed during the ISO 14034-aligned ETV process.

Verification

This Environmental Technology Verification (ETV) was conducted by Globe Performance Solutions (GPS) in accordance with the principles and framework of ISO 14034:2016 - Environmental Management - Environmental Technology Verification (ETV). The verification was based on the independent assessment of available evidence supporting the performance of the Atlan FlowFilter® stormwater treatment system. The objective of the verification was to evaluate the validity and reliability of the performance claims associated with the technology under defined operating conditions.

The verification process included review and evaluation of SQIDEP evaluation reports and supporting Body of Evidence (BOE) documentation, field monitoring datasets collected under operational stormwater conditions, accredited laboratory analytical results, controlled laboratory testing conducted by the Water Research Laboratory (WRL), University of New South Wales, rainfall and event monitoring records, quality assurance and quality control (QA/QC) documentation, and supporting technical documentation provided by the technology developer.

GPS conducted an independent review of the available datasets to assess data quality, traceability, relevance, completeness, and consistency across multiple evidence sources. The verification included evaluation of pollutant removal performance for Total Suspended Solids (TSS), nutrients, metals, and gross pollutants under the operating conditions represented within the evaluated datasets.

The field monitoring datasets included multiple rainfall events collected under real stormwater operating conditions and represented variability in hydraulic loading, influent pollutant concentrations, storm intensity, and environmental conditions typical of urban runoff from impervious surfaces. Controlled laboratory testing was additionally reviewed to support interpretation of treatment mechanisms and performance trends under defined hydraulic and loading conditions.

GPS did not generate or modify primary testing data as part of this verification. Verification conclusions presented in this Verification Statement are based solely on the independent evaluation and interpretation of the available evidence and supporting documentation. This verification was not conducted under the

Canadian Procedure for Field Testing of Stormwater Filtration Manufactured Treatment Devices (PAS), the Washington State Technology Assessment Protocol Ecology (TAPE), or any jurisdiction-specific regulatory approval or certification program. Rather, the verification was conducted using an ISO 14034-aligned evidence-based verification methodology incorporating field monitoring data, laboratory testing data, SQIDEP evaluation documentation, and supporting technical evidence from independent and identified sources.

To provide additional transparency and technical context, the associated ETV Technical Report includes an annex describing the alignment between the verification methodology applied in this assessment and relevant PAS framework elements. The verified performance presented in this Verification Statement applies only under the defined operating conditions, hydraulic design parameters, maintenance conditions, and conditions of applicability described in this document and the associated ETV Technical Report.

What is ISO14034:2016 Environmental management – Environmental technology verification (ETV)?

ISO 14034:2016 specifies principles, procedures and requirements for environmental technology verification (ETV) and was developed and published by the International Organization for Standardization (ISO). The objective of ETV is to provide credible, reliable and independent verification of the performance of environmental technologies. An environmental technology is a technology that either results in an environmental added value or measures parameters that indicate an environmental impact. Such technologies have an increasingly important role in addressing environmental challenges and achieving sustainable development.

Verification

Globe Performance Solutions (GPS) provides Environmental Technology Verification (ETV) services based solely on the information, datasets, technical documents, and supporting evidence made available by the technology developer and other identified sources at the time of verification. Responsibility for the accuracy, completeness, and authenticity of the submitted information remains solely with the technology developer and original data sources.

The verification conclusions presented in this Verification Statement are based on independent evaluation of the available evidence in accordance with the principles and framework of ISO 14034:2016 - Environmental Management - Environmental Technology Verification (ETV). GPS did not generate primary testing data, conduct independent field sampling, or perform laboratory analyses as part of this verification unless specifically stated otherwise in the associated ETV Technical Report. The verification results were independently validated by two independent industry experts.

The verified performance presented in this Verification Statement applies only under the defined operating conditions, hydraulic design parameters, influent characteristics, maintenance conditions, and conditions of applicability described in this document and the associated ETV Technical Report. Performance may vary under different environmental, hydraulic, operational, or site-specific conditions. This verification does not constitute regulatory approval or certification under any jurisdiction-specific program, or approval by any regulatory authority, municipality, or permitting agency.

This verification is limited to the technical performance assessment of the Atlan FlowFilter® based on the evaluated datasets and supporting evidence available at the time of verification. GPS assumes no liability for the purchase, design, installation, operation, maintenance, or performance of the technology beyond the scope of the verification described herein. Liability associated with the application, use, interpretation,

or reliance upon the verified performance remains solely with the technology owner, system designer, installer, operator, purchaser, or end user.

The verification shall not be reproduced selectively or presented in a manner that misrepresents the scope, limitations, conditions of applicability, or conclusions of the verification.

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