#### STORMWATER MANAGEMENT 1 AT NIST-GAITHERSBURG 2 3 4 NIST S 7301.10 Approval Date: 02/09/2022 5 Effective Date: xx/xx/xxxx 6 7 8 1. PURPOSE 9 10 The purpose of this suborder is to define the requirements and associated roles and 11 responsibilities for stormwater management at the NIST-Gaithersburg Site. 12 13 2. BACKGROUND 14 The NIST Gaithersburg Site encompasses 579 acres and includes over 60 buildings. In 2021, 15 impervious surfaces e.g., pavement, building roofs, at the Gaithersburg Site include 35 acres 16 of buildings and 64 acres of parking/loading areas, roads, and sidewalks. 17 18 19 Impervious surfaces prevent precipitation from infiltrating naturally into the soil. Precipitation that flows off impervious areas, stormwater runoff, is conveyed by drains and 20 pipelines and released to nearby streams. As stormwater flows across an impervious surface 21 it picks up pollutants including litter, oil, gasoline, anti-freeze, landscape debris, fertilizers, 22 and sediments. Impervious surfaces also increase the amount of water discharging to 23 streams, which during larger rain events, can erode and degrade stream channels. 24 Stormwater management practices are intended to reduce the quantity and improve the 25 26 quality of stormwater runoff. 27 In accordance with federal and state regulations (referenced below, in Section 4) the 28 29 Maryland Department of the Environment (MDE) issued NIST a General Permit for Discharges from State and Federal Small Municipal Separate Storm Sewer Systems, also 30 known as an MS4 Permit. This permit regulates discharges into the Gaithersburg Site's 31 32 stormwater system with a primary emphasis on water quality, pollution prevention, and 33 erosion control. 34 Under the MS4 permit, NIST must implement six minimum control measures that include 35 Personnel Education and Outreach, Public or Personnel Involvement and Participation, Illicit 36 37 Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post Construction Stormwater Management, and Pollution Prevention and Good Housekeeping. 38

39 40		In addition, NIST must implement stormwater management practices, as part of the Chesapeake Bay Restoration Program, that will result in treating twenty percent of the
41		currently untreated stormwater runoff from the NIST Gaithersburg Site.
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43		NIST P 7300.00, the NIST Environmental Management Policy, articulates NIST's
44 45		commitment to the management of stormwater in compliance with applicable regulations and permits.
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48	3.	APPLICABILITY
49		This suborder applies to all activities by NIST employees, associates, and contractors at the
50		NIST Gaithersburg Site that may impact stormwater.
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53	4.	REFERENCES
54		Legal and other requirements common to all NIST Environmental Suborders can be found in
55		Section 4 of NIST O 730.01. The legal and other requirements specific to this suborder are
56		as follows:
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58	a.	Code of Federal Regulations (CFR), Title 40, Subchapter D
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60	b.	Code of Maryland Regulations (COMAR) Title 26, Subtitle 8 Water Pollution
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62	c.	MDE National Pollutant Discharge Elimination System (NPDES) General Permit for
63		Discharges from State and Federal Small Municipal Separate Storm Sewer Systems (MS4),
64		General Discharge Permit No. 13-SF-5501 (latest version)
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66	d.	MDE General Permit for Stormwater Associated with Construction Activity, General
67		NPDES Discharge Permit Number MDRC (latest version)
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69	e.	Public Law 110-140, Energy Independence and Security Act, Section 438
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71	f.	<u>USEPA Technical Guidance on Implementing the Stormwater Runoff Requirements for</u>
72		Federal Projects under Section 438 of the Energy Independence and Security Act (EPA841-
73		<u>B-09-001</u> ), dated December, 2009
74		
75	g.	Maryland Stormwater Management and Erosion and Sediment Control Guidelines for State
76		and Federal Projects (latest version)
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78	h.	Maryland Standards and Specifications for Soil Erosion and Sediment Control (latest
79		version)
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81	i.	2000 Maryland Stormwater Design Manual, Volumes <u>I</u> & <u>II</u> (latest version)
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84	5.	APPLICABLE NIST SUBORDERS
85	a.	NIST S 7301.01: Environmental Management System
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87	b.	NIST S 7301.08: Oil Storage and Handling at NIST-Gaithersburg
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89	c.	NIST S 7301.06: Chemical Waste Accumulation and Disposal at NIST-Gaithersburg
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91	d.	NIST S 7301.12: Wastewater Management at NIST-Gaithersburg
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93	e.	NIST S 7401.01: Fire Protection and Life Safety for Design and Construction
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96	6.	REQUIREMENTS
97	a.	General Requirements
98		(1) NUCE 1 11: 1 1 1 1 1
99		(1) NIST shall implement a stormwater management program designed to reduce the
100		discharge of stormwater pollutants to the maximum extent practicable. This shall be
101		accomplished through the implementation of the six (6) minimum control measures described in Section 6.b below.
102		described in Section 6.0 below.
103 104		(2) NIST shall comply with Maryland state requirements for Chesapeake Bay Restoration
105		and shall not exceed the total maximum daily loads (TMDLs), the maximum amount of
106		an impairing substance that a water body can assimilate and still maintain water quality
107		standards, for target pollutants such as nitrogen, phosphorus and sediment. This shall be
108		accomplished by implementing the restoration and reporting requirements described in
109		Section 6.c below.
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111		(3) NIST shall take all reasonable steps to minimize or prevent any stormwater discharge that
112		has a reasonable likelihood of adversely affecting human health or the environment.
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114		(4) NIST shall submit reports, notifications, and other information to MDE as specified in
115		the MS4 Permit and this suborder. All reports shall be signed by a duly authorized
116		employee. This authority has been delegated to the NIST Gaithersburg Environmental
117		Management Group Leader.

(5) Authorized Stormwater Discharges – In addition to precipitation, the following non-118 stormwater sources may discharge into the stormwater drainage system if not 119 contaminated with pollutants: 120 121 122 (a) Landscape irrigation; (b) Diverted stream flows; 123 (c) Rising groundwater; 124 Uncontaminated groundwater infiltration; (d) 125 (e) Uncontaminated pumped groundwater; 126 Foundation drains: 127 (f) Air conditioning condensate; (g) 128 (h) Irrigation water; 129 130 (i) Springs; 131 (i) Water from crawl space pumps; (k) Footing drains; 132 (1)Lawn watering runoff; 133 (m) Flows from riparian habitats and wetlands; 134 Residual street wash water: 135 (n) (o) Discharges or flows from fire-fighting activities; and 136 Dechlorinated potable water from hydrant flushing or fire flow testing. (p) 137 138 Non-stormwater sources, stormwater associated with industrial activity, or discharges 139 140 associated with construction activities may be authorized to discharge via the storm sewer system if such discharges are specifically authorized under an applicable NPDES 141 discharge permit. NIST activities requiring specific NPDES discharge permits shall 142 coordinate with the EMG to obtain the permits and maintain compliance requirements 143 after permit issuance. 144 145 146 (6) Restricted Stormwater Discharges - Other than the items listed in (5), no materials shall 147 be released to the storm drainage system at the NIST-Gaithersburg Site. Illicit discharges to storm water systems shall be prohibited at NIST. Contact the Environmental 148 Management Group (EMG) at x5375, option 3 with any questions. 149 150 (7) Discharges into Sanitary Sewer System - Stormwater shall not be discharged into the 151 sanitary sewer system. Any discharge into the sanitary sewer system shall meet the 152 requirements of NIST S 7301.12: Wastewater Management at NIST-Gaithersburg. 153 154 (8) On an ongoing basis NIST shall evaluate new projects and changes to existing systems 155 and equipment (i.e., management of change) to determine the applicability of state and/or 156 157 federal stormwater regulations, and any necessary actions that must be taken by NIST

prior to implementation, e.g., Best Management Practice (BMP) implementation or 158 permit modifications. 159 160 b. Minimum Control Measures 161 NIST shall implement best management practices (BMPs) necessary to meet the following 162 minimum control measures and as specified in the NIST MS4 Permit. 163 164 (1) Personnel Education and Outreach 165 NIST shall implement and maintain a personnel education and outreach program to 166 promote the reduction of stormwater pollution. The education and outreach program 167 shall include information on the impacts of stormwater discharges on receiving waters, 168 why controlling these discharges is important, and how personnel can contribute to 169 stormwater pollution prevention. The personal education and outreach program shall 170 determine the NIST target audience and educate them on the impacts of stormwater. 171 Stormwater education materials shall be distributed through appropriate methods. Staff 172 shall be able to report water quality complaints, e.g., muddy water flowing from a 173 construction site, to the Safety Assistance Number (x5375, Option 3). 174 175 176 (2) Personnel Involvement and Participation NIST shall create and foster opportunities for public and/or staff participation in the MS4 177 management program for controlling stormwater discharges. The EMG shall host public 178 179 and/or staff involvement and participation activities and determine the staff target audience. A minimum number of 5 public and/or staff participation events shall be held 180 each 5-year permit term. 181 182 183 (3) Illicit Discharge Detection and Elimination NIST shall implement and enforce an illicit discharge detection and elimination program 184 to detect and eliminate illicit discharges into the stormwater system. Any discharges 185 other than those authorized under Section 6.a(4), are considered illicit discharges. It is 186 NIST policy that illicit discharges to the stormwater system shall be prohibited. NIST 187 shall perform the following to comply with this requirement: 188 189 (a) Maintenance of updated stormwater system mapping; 190 191 192 (b) Annual field screening of outfalls; 193

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(c) Inspections to identify sources of illegal discharges;

(d) Elimination of illegal connections or illicit discharges; and

(e) Immediate response to and remediation of spills and unauthorized releases to the stormwater system.

(4) Construction and Stormwater Runoff Control

NIST shall develop, implement, and enforce an acceptable erosion and sediment control program that complies with state and federal laws and regulations. For any construction activity that disturbs ≥5,000 ft² of earth or involves ≥100 yd³ of earth movement, NIST shall prepare an Erosion and Sediment Control Plan and obtain approval and permitting from the MDE's Plan Review Division. Submitted plans shall be in compliance with the *Maryland Stormwater Management and Erosion and Sediment Control Guidelines for State and Federal Projects* (most recent revision), and MDE's *Maryland Standards and Specifications for Soil Erosion and Sediment Control* (most recent revision). NIST shall obtain MDE review and approval of Erosion and Sediment Control and Stormwater Management Plans prior to disturbing or moving any earth. NIST shall notify the MDE Compliance Division at least one week before a permitted project starts and schedule a pre-construction meeting or inspection.

For construction projects that disturb 1 acre or more NIST shall submit a Notice of Intent (NOI) to apply for coverage under MDE's General NPDES Permit for Stormwater Associated with Construction Activity. Projects with General NPDES permit coverage shall comply with all monitoring and recordkeeping requirements, *e.g.*, weekly and post rain event inspections of the construction site, specified in the permit. If the MDE General NPDES Permit for Stormwater Associated with Construction Activity is expired without a replacement permit, NIST projects shall follow MDE protocol and either submit a Declaration of Intent (DOI) to voluntarily adhere to the requirements of the expired permit or apply for an individual NPDES permit.

All construction activities at NIST that require soil disturbance, but do not meet the threshold for obtaining an MDE permit (sites disturbing < 5,000 ft<sup>2</sup> or <100 yd<sup>3</sup> of earth) shall also utilize appropriate sediment and erosion control practices as established by MDE in the *Maryland Standards and Specifications for Soil Erosion and Sediment Control* (most recent revision). Following completion of construction, each site shall be reseeded and replanted within seven days to control erosion and sediment runoff.

It is NIST Policy that any tree that is removed or dies shall be replaced in the same location or an approved alternate location.

The Safety Assistance Number (x5375, Option 3) shall be used to take calls for any stormwater issues related to construction activities. NIST staff who observe any stormwater issues are encouraged to call the Safety Assistance Number or contact an

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OFPM representative to investigate. The complainant shall be notified of the investigation and findings within seven days.  Key government or contractor personnel managing or inspecting construction active with MDE sediment and crosion control permits shall be certified via the MDE's Responsible Personnel Certification online training.  (5) Post-Construction Stormwater Management NIST shall implement post construction stormwater management, in accordance we COMAR 26.17.02, for any new development and redevelopment that disturbs 5,00 square feet or more of land area.  NIST projects that exceed 5,000 square feet of soil disturbance shall also conform stormwater runoff requirements of Section 438 of the Energy Independence and Scate of 2007 (EISA).  For all applicable projects, stormwater management plans shall be submitted to the for review and approval. Plans shall be prepared in accordance with the Maryland Stormwater Management and Erosion and Sediment Control Guidelines for State of Federal Projects (February 2015) or most recent version for compliance with state stormwater management requirements.  NIST shall implement the principles, methods, and practices found in the latest verticated and Federal Projects. This includes that environmental site design (ESD) be implemented to the maximum extent practicable (MEP).  (a) Reporting is required for Post Construction Stormwater Management Annually; NIST shall report the following to the MDE:  i. Total number of stormwater management plans submitted to MDE for 1	
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1. Total named of stormwater management plans such ited to 11515 for i	view
and approval;	
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ii. Total number of as-built plans submitted to MDE and approved;	
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iii. Verification that BMPs are maintained in accordance with MDE require	ments
outlined in the approved stormwater management plans; and	
275	

276	iv. Training courses attended on BMP design, performance, inspection, and
277	routine maintenance; and
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279	v. An Urban BMP database for the NIST Gaithersburg Site that provides a
280	stormwater BMP inventory with inspection and maintenance activities.
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282	(b) Maintenance Required for Post Construction Stormwater Management
283	Stormwater Best Management Practices (BMPs) such as outfalls, bioretention, micro-
284	bioretention, rain gardens, swales, ponds, retention areas, etc., shall be maintained
285	according to requirements outlined in MDE approved stormwater management plans.
286	All stormwater BMPs shall be visually inspected for maintenance issues annually at a
287	minimum. Any deficiencies shall be addressed within the year. For deficiencies that
288	cannot be addressed within a year, NIST shall implement a plan of action that shall be
289	reported to MDE in annual reports.
290	
291	(6) Pollution Prevention and Good Housekeeping
292	NIST-Gaithersburg shall implement and maintain a good housekeeping plan to reduce
293	stormwater pollutants. NIST personnel with the potential to impact stormwater quality
294	through their daily activities shall receive annual training designed to reduce or eliminate
295	the discharge of pollutants during property operations. At NIST these personnel are
296	mostly members of OFPM.
297	
298	Stormwater pollution prevention and good housekeeping efforts shall be reported to
299	MDE in annual progress reports.
300	
301	c. Chesapeake Bay Restoration and Meeting Total Maximum Daily Loads
302	NIST shall comply with MS4 Permit requirements to reduce nutrient and sediment loads as
303	part of the Chesapeake Bay Restoration Program. This shall be accomplished by treating
304	stormwater runoff from twenty percent of the existing untreated impervious surfaces at NIST
305	Gaithersburg. Compliance with restoration requirements shall be accomplished by
306	performing the following:

307 308	(1) NIST shall develop and implement an Impervious Area Restoration Work Plan to include:
309	
310 311 312	(a) A baseline impervious area assessment identifying the total impervious area at the NIST Gaithersburg Site and the impervious areas that are treated with acceptable water quality best management practices;
313	
314 315	(b) An Urban BMP Database as described in Section 6.b(5)(a); and
316	(c) Activities and milestones that will be performed over the permit term to towards the
317	twenty percent impervious area restoration requirement.
318	
319 320	(2) This Impervious Area Restoration Work Plan shall be submitted to MDE annually as part of NIST's annual MS4 reports to MDE.
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322	d. Monitoring and Reporting
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324	(1) Monitoring
325	NIST shall conduct monitoring necessary to evaluate the effectiveness of the stormwater
326	management program, including:
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328	(a) An Annual Review of the Stormwater Management Program by EMG;
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330	(b) Monitoring all construction projects with MDE approved erosion and sediment
331	control plans for permit compliance by OFPM; and
332	
333	(c) Monitoring all construction, excavation and earth disturbing activities include
334	properly implemented erosion and sediment controls and that these controls are
335	effective by OFPM.
336	
337	(2) Reporting and Emergency Notifications
338	
339	(a) The EMG shall conduct all reporting required by the MS4 Permit.
340	
341	(b) In the event an accidental or unauthorized discharge occurs that may result in a
342	violation of the permit requirements or negatively affect the environment, the EMG
343	shall notify the following:
344	. MDEE
345 346	i. MDE Emergency Response Program: 1-866-633-4686; and
<b>⊀/I</b> h	

347 348	ii. As required, the National Response Center: 1-800-424-8802.
349 350	(c) The EMG shall submit an annual report to MDE regarding the status of the stormwater management program. Specific requirements and elements of the annual
351 352	report are detailed in the MS4 Permit. The report is due on 31 October of each year.
353 e. 354	Maintenance
355 356 357	(1) Stormwater BMPs subject to this Suborder shall be maintained in a manner that ensures compliance with performance requirements established in the MS4 Permit.
358 359 360 361 362	Stormwater management features require periodic inspection and maintenance to include removal of debris, weeding, shoring, mulching, replanting, cleaning, or replacement of piping, etc. A program of periodic inspection and maintenance shall be established and conducted by the Gaithersburg Facility Maintenance Division (GFMD).
363 364	(2) Records of maintenance activities shall be maintained per Step 6.h. below.
365 f. 366	Evaluation of Compliance
367 368 369 370 371	(1) The NIST-Gaithersburg EMG shall conduct a compliance evaluation of this program on at least an annual basis. A standard checklist or spreadsheet maintained by EMG identifying the requirements of the MS4 permit and the status of actions implemented to comply with the requirements shall be used.
372 373 374	(2) Results of compliance evaluations shall be documented, coordinated with GFMD for any corrective actions needed, and records maintained per Section 6.h. below.
375 376 377	(3) Significant findings from compliance evaluations shall be addressed using the <u>NIST EMS</u> <u>Suborder</u> requirements for Non-Conformances, Corrective and Preventive Action.
378 g. 379	Training
380 381 382	(1) All required training shall be provided and recorded in NIST <u>Safety Education and Training System</u> (SET). Training shall be provided to the following:
383 384 385 386	(a) NIST staff whose work could impact the stormwater system shall complete the training associated with this suborder NIST S 7301.10: <i>Stormwater Management at NIST Gaithersburg</i> .

387 388 389 390	(b) NIST staff that work with hazardous chemicals and generate chemical waste shall be trained through NIST S 7301.06: NIST Gaithersburg Chemical Waste Accumulation and Disposal.
391 392 393	(c) NIST Gaithersburg oil handling personnel performing tasks related to petroleum storage tanks or oil-filled equipment shall complete NIST S 7301.08: <i>NIST Gaithersburg Oil Spill Prevention and Response</i> training.
394 395 396 397 398	(2) Training for Construction Site Stormwater Runoff Control shall be provided to NIST personnel responsible for construction or projects through the <u>MDE's Responsible</u> <u>Personnel Certification</u> online training located at:
399 400	http://mderpc.mde.state.md.us/Account/login.aspx
401 402 403 404 405 406	(3) Training for Post Construction Stormwater Management shall be provided to staff responsible for proper stormwater BMP design, performance, inspection, and routine maintenance through courses such as the Montgomery County Department of Environmental Protection Stormwater Facility Maintenance Contractor Training or equivalent.
407 408	(4) Training for Pollution Prevention and Good Housekeeping shall be provided to NIST Personnel through trainings on the following programs:
409 410 411	(a) NIST S 7301.10: Stormwater Management at NIST Gaithersburg;
412 413	(b) NIST S 7301.08: NIST Gaithersburg Oil Spill Prevention and Response;
414 415	(c) NIST S 7301.06: NIST Gaithersburg Chemical Waste Accumulation and Disposal.
416 417 418 419 420	OFPM trainings on topics that reduce or eliminate the discharge of pollutants during property operations, such as proper pesticide/herbicide and road salt application, shall also satisfy this requirement. Training formats may include in-person, online, toolbox talks, and on-the-job.
421 h. 422 423 424 425	Recordkeeping NIST shall maintain records as necessary to demonstrate compliance with the MS4 Permit. These records and any supporting documentation shall be submitted to MDE upon request. NIST's MS4 program information and records shall be available to the public during regular business hours. NIST EMS Procedure 15.0 EMS Records Management in the EMS Suborder

426 427		and NIST S 7101.15: <i>SMS Documents and Records Control</i> shall be used to ensure proper identification, storage, protection, retrieval, retention, and disposal of records.
428		
429		(1) Records needed to demonstrate compliance with general MS4 Permit requirements shall
430		be maintained by the EMG. These include:
431		
432		(a) Annual reports identified in Section 6.c(2)(c);
433		(b) Emergency notification reports;
434		(c) Regulatory correspondence;
435		(d) Compliance evaluation reports;
436		(e) Records of annual stormwater program compliance inspections;
437		(f) Training records;
438		(g) Education and outreach records;
439		(h) Personnel involvement and participation records;
440		(i) Maintenance records (produced by GFMD);
441		(j) Permit applications and related information;
442		(k) Construction Stormwater Management Reports and Stormwater BMP Drawings; and
443		(l) Current and historic permits, including construction permits.
444		
445		(2) Records to demonstrate compliance with requirements identified in Section 6.
446		(2) All and all and a significant and a second and a second as a se
447		(3) All records required by this Suborder shall be maintained for a period of at least three (3)
448		years after termination of the NIST MS4 Permit.
449		
450	7	DEFINITIONS
451	/.	
452		Definitions common to all NIST EMS suborders can be found in Section 6 of NIST O
453		730.01.
454		Deat Management Duration Standard device an austractural anactic design of to
455	a.	Best Management Practice – Structural device or nonstructural practice designed to
456		temporarily store or treat stormwater runoff to mitigate flooding and reduce stormwater
457		pollution. Examples of best management practices include microbioretention basins, rain
458		gardens, sand filters, and grass swales.
459	1	
460	b.	<u>Contaminant</u> – Any material that may negatively impact water quality. See <i>pollutant</i> .
461		District and American horses in the surface and a second s
462	c.	<u>Disturbance</u> – An activity by which the surface cover, <i>e.g.</i> , grass or other vegetation, is
463		removed or altered, therefore making the soil susceptible to erosion
464		

- d. Environmental Site Design Design strategy, required by the Maryland Department of the
   Environment, for maintaining predevelopment stormwater runoff characteristics and
   protecting natural resources. Examples of environmental site design for stormwater include
   installing bioretention basins, rain gardens, and grassy swales.
- e. <u>Erosion and sediment controls</u> A system of protective measures, devices, and techniques,
   such as silt fence and inlet protection, that minimize soil erosion and off-site sedimentation.
- f. Erosion and sediment control plan An erosion and sediment control strategy and procedures designed in accordance with current MDE standards and approved by the MDE.

  The plan specifies control measures to be taken to minimizes erosion and prevent the off-site release of sediment at construction sites.
- g. <u>Illicit Discharge</u> Any discharge to the storm sewer system that is not composed entirely of stormwater runoff or other authorized discharges listed in Section 6.a.4. Examples include sanitary sewer lines mistakenly connected to the stormwater system or improperly discharging wastewater to the stormwater system.
- 484
   485 i. <u>Minimum Control Measure</u> The minimum requirement to satisfy a regulatory condition.

Minimum control measures are defined by NIST's MS4 permit.

h. Maintenance – An activity to repair or restore an asset to its original function

- j. Municipal Separate Storm Sewer System A conveyance or system of conveyances that is:
   owned by a state, city, town, village, or other public entity that discharges to waters
  - designed or used to collect or convey stormwater, e.g., storm drains, pipes, ditches,
  - not a combined sewer, and

of the U.S.,

- not part of a sewage treatment plant, or publicly owned treatment works.
- k. National Pollutant Discharge Elimination System A permitting program authorized by the
   Clean Water Act and enforced by the Environmental Protection Agency and MDE that
   regulates discharges of pollutants into waters of the United States.
- 1. Notice of Intent An application for coverage under an MDE general permit.
- m. Pollutant Per 40 CFR 122.2, any dredged spoil, solid waste, incinerator residue, filter
   backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological
   materials, radioactive materials (except those regulated under the Atomic Energy Act of

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1954, as amended (42 U.S.C. 2011 et seq.)), heat, wrecked or discarded equipment, rock, 504 sand, cellar dirt and industrial, municipal, and agricultural waste discharged into water. 505 506 n. Post-Construction Stormwater Control Measures – Permanent stormwater control measures 507 508 or BMPs that will remain in place after completion of construction in order to retain, detain, infiltrate, or treat stormwater discharges from impervious surfaces installed as part of a 509 development or redevelopment project. 510 511 512 o. Stormwater Best Management Practice – Best management practice to control stormwater quality and quantity. Stormwater BMPs are structural, vegetative, or managerial practices 513 used to treat, prevent, or reduce water pollution. 514 515 p. Stormwater Management Plan – A plan to manage stormwater runoff from newly constructed 516 517 impervious areas. The plans are prepared in accordance with current MDE standards and are reviewed and approved by the MDE. Stormwater management plans use the principles of 518 Environmental Site Design and typically require the installation of structural stormwater 519 management practices such as micro-bioretention basins, rain gardens, swales, etc. 520 521 522 8. ACRONYMS 523 Acronyms common to all NIST EMS suborders can be found in Section 7 of NIST O 730.01. 524 The acronyms specific to this suborder are as follows: 525 526 a. BMP – Best Management Practice 527 528 b. COR – Contracting Officer Representative 529 530 c. EMS – NIST Environmental Management System 531 532 d. EMG – Environmental Management Group which is part of the Gaithersburg Safety, Health, 533 and Environment Division 534 535 e. EPA – U.S. Environmental Protection Agency 536 537 f. ESD – Environmental Site Design 538 539 g. GDCD – Gaithersburg Design and Construction Division 540 541 h. GFMD – Gaithersburg Facilities Maintenance Division 542 543

544 545	i.	<u>GSHED</u> – Gaithersburg Safety, Health, and Environment Division (151)
545 546	į.	MDE – Maryland Department of the Environment
547	J.	- Waryland Department of the Environment
548 549	k.	MS4 – Municipal Separate Storm Sewer System
550 551	1.	<u>NPDES</u> – National Pollutant Discharge Elimination System
552 553	m.	$\underline{\text{NOI}}$ – Notice of Intent to apply for coverage under a general or individual permit from the MDE
<ul><li>554</li><li>555</li><li>556</li></ul>	n.	OFPM – NIST Office of Facilities and Property Management
557 558	0.	OSHE – NIST Office of Safety, Health and Environment
559 560	p.	<u>SET</u> – NIST Safety Education and Training system
561 562	q.	<u>SPCC</u> – Spill Prevention, Control and Countermeasures
563 564	0	RESPONSIBILITIES
565 566	7.	Roles and responsibilities common to all NIST Environmental Suborders can be found in NIST O 7301.00. The roles and responsibilities specific to this suborder are as follows:
<ul><li>567</li><li>568</li><li>569</li><li>570</li><li>531</li></ul>	a.	<u>Chief Safety Officer (CSO)</u> – As NIST's designated Environmental Manager, the CSO is responsible for overseeing NIST's efforts in complying with the requirements identified in this suborder.
<ul><li>571</li><li>572</li><li>573</li></ul>	b.	OU Directors are responsible for:
574 575 576		(1) Establishing and implementing policies and procedures, as needed, for the requirements of this suborder to be met.
577 578 579		(2) Ensuring subordinate managers have the authority, resources, and training needed to implement OU-established policies, procedures to meet the requirements of this suborder.
580 581 582		(3) Using OU funds to pay any civil penalties identified in regulatory inspections and resulting from regulatory violations in their respective OUs.

583 584	c.	<u>Division Chiefs and Group Leaders</u> are responsible for:
585 586 587		(1) Implementing this suborder as it applies to activities involving their personnel and space in accordance with any applicable OU-established policies and procedures.
588 589 590		(2) Ensuring contaminants and pollutants are handled in a manner preventing illicit discharges to the stormwater system.
591 592 593		(3) Ensuring OSHE and regulatory inspectors are provided access to areas under their supervision.
594 595 596		(4) Upon receiving inspection reports on their respective workplaces, ensuring corrective actions are performed and completed in the timeframe specified by the regulatory agency
597 598	d.	NIST-Gaithersburg Employees and Associates are responsible for the following:
599 600		(1) Ensuring their activities do not release pollutants to the stormwater system.
601 602 603		(2) Reporting to the NIST EMG (5375, Option 3) any activity that is suspected to release stormwater pollution or unauthorized discharges into the stormwater system.
604 605 606		(3) Reporting any spills or releases that could enter a storm drain to the emergency number (x2222).
607 608 609	e.	Environmental Management Group Leader, Gaithersburg Safety, Health, and Environment Division, Office of Safety, Health, and Environment is responsible for the following:
610 611 612		(1) Ensuring compliance with monitoring, recordkeeping and reporting requirements established in the MDE MS4 stormwater discharge permit.
513 514 515		(2) Performing an internal compliance evaluation and program annual review once per calendar year at a minimum to verify ongoing compliance with the MS4 Permit.
616 617		(3) Reporting to the MDE as specified in Section 6.c.
618 619 620		(4) Communicating the regulatory requirements to affected personnel and providing training as necessary.
621 622		(5) Providing informational outreach to NIST staff regarding storm water and encouraging participation in local events.

623	(6) Ensuring review of site design packages to ensure that environmental site design is
624 625	incorporated into any storm water management element.
626	(7) Performing field verification of construction projects to ensure that proper erosion and
627	sedimentation practices are being employed and are effective.
628	
629	(8) Performing annual inspections of Stormwater BMPs and reporting deficiencies to the
630	GFMD.
631	
632	(9) Performing annual illicit discharge outfall screenings per the NIST Standard Operating
633	Procedures for Storm Water Outfall Inspection Illicit Discharge Detection and
634 635	Elimination.
636	(10) Maintaining this Suborder, the Good Housekeeping Plan per Section 6.b(6), and the
637	Impervious Area Restoration Workplan (included in the MS4 Annual Reports).
638	impervious risea resociation wemptain (menadea in the <u>rise virialisant respects</u> ).
639	(11) Providing training as identified in Section 6.f.
640	
641	(12) Maintaining general records identified in Section 6.g.
642	
643 f	
644	<u>Management (OFPM)</u> is responsible for the following:
645	
646 647	(1) Ensuring fertilizer, herbicide, and pesticide application practices, equipment maintenance, and general landscaping are performed in a manner that minimizes storm
647 648	water pollution and complies with the requirements identified in the Good Housekeeping
649	Plan.
650	Tan.
651	(2) Ensuring excavation and other earth-moving activities, conducted by GFMD personnel,
652	are performed in a manner to minimize disturbance, minimize erosion and sedimentation
653	and that proper erosion controls are implemented.
654	
655	(3) Ensuring that disturbed soil is stabilized with seed and straw mulch or equivalent
656	vegetative stabilization method within 7 days of project conclusion.
657	
658	(4) Ensuring MDE permitting is obtained for GFMD projects that disturb $\geq$ 5,000 ft <sup>2</sup> of earth
659	or involves $\geq 100 \text{ yd}^3$ of earth movement.
660	
661	(5) Ensuring stormwater discharges associated with activities performed or managed by
662	GFMD personnel comply with Section 6.a(4).

663 664 665	(6) Ensuring illicit discharges and illegal connections are promptly eliminated when discovered.
666 667	(7) Obtaining and maintaining training for GFMD personnel as identified in Section 6.f.
668 669	(8) Ensuring landscaping is performed in a manner that promotes soil stabilization, prevents erosion.
670 671 672 673	(9) Ensuring the site's storm water management features and storm sewer system are maintained as part of NISTs preventive maintenance program.
674 675 676	(10) Ensuring that stormwater BMP maintenance and inspections are performed in accordance with MDE approved stormwater management plans.
677 678	(11) Taking action to bring any failing stormwater BMPs into compliance.
679 680	(12) Ensuring any unauthorized release to the stormwater system or other nonconformance with this suborder is immediately reported to the EMG.
681 682 683	(13) Ensuring stormwater issues raised by NIST-Gaithersburg personnel or the public are addressed promptly.
684 685 686 687	(14) Maintaining updated mapping of the NIST storm sewer system identifying all stormwater conveyances, outfalls, stormwater best management practices (BMPs), and waters of the U.S. receiving stormwater discharges.
688 689 690	(15) Supporting NIST efforts for staff outreach and public participation events related to stormwater, <i>e.g.</i> , Earth Day tree planting and Take Your Child to Work Day.
691 692 693	(16) Maintaining records of maintenance activities on storm water BMPs in accordance with MDE requirements on approved stormwater management plans.
694 695	(17) Maintaining as-built drawings of all construction projects at NIST-Gaithersburg.
696	g. <u>Gaithersburg Design and Construction Division Chief (GDCD)</u> , <u>OFPM</u> is responsible for the following:
697 698 699	(1) Ensuring for any construction activity that disturbs ≥5,000 ft² of earth or involves ≥100 yd³ of earth movement:
700 701 702	(a) A stormwater management plan and erosion and sediment control plan are prepared, and MDE approval and permitting is obtained;

(b) As required, public notification requirements are met; 703 704 (c) Required monitoring and maintenance of erosion and sedimentation controls is 705 conducted during the construction; and 706 707 708 (d) MDE erosion and sedimentation inspectors are escorted as needed. Plans submitted to MDE shall be in compliance with the Maryland Stormwater 709 Management and Erosion and Sediment Control Guidelines for State and Federal 710 Projects (February 2015), 2000 Maryland Stormwater Design Manual, Volumes I & 711 II (May 2009), and MDE's 2011 Maryland Standards and Specifications for Soil 712 713 Erosion and Sediment Control or most recent revisions. 714 (2) Ensuring projects disturbing an acre or more shall submit an NOI for coverage under 715 MDE's General NPDES for Stormwater Associated with Construction Activity. This is 716 in addition to the MDE approval for a stormwater management and erosion and sediment 717 control plan. Perform all monitoring, recordkeeping, and notification requirements 718 required by the general NPDES permit. 719 720 (3) Ensuring that all projects with ESD stormwater management structures submit as-builts 721 to MDE for approval prior to closing out the project. 722 723 724 (4) Coordinating additional permitting requirements with the EMG for project that may 725 impact wetland areas, e.g., Nontidal Wetlands and Waterways permit, specific NPDES discharge permits. Performing all monitoring, recordkeeping, and notification 726 requirements required by the MDE permit(s). 727 728 (5) Ensuring plans and designs for any construction project exceeding 5,000 ft<sup>2</sup>, maintain or 729 restore pre-development hydrology by conforming with the USEPA Technical Guidance 730 on Implementing the Stormwater Runoff Requirements for Federal Projects under Section 731 438 of the Energy Independence and Security Act (EPA841-B-09-001). 732 733 (6) Ensuring all NIST construction contracts contain clauses requiring the contractor's 734 735 compliance with applicable stormwater regulations and permits. Ensuring that all deliverables, including MDE approved stormwater as-built drawings and BMP warranty 736 information are provided by contractors before contractor submits Notice-of-Termination 737 to MDE. 738 739 740 (7) Ensuring that completed as-built drawings are submitted to the GFMD for storage and maintenance. 741

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743 744 745	` ,	ght of all contracted construction work to ensure compliance with ater regulations and permits.
746 747	(9) Ensuring stormwaddressed promp	vater issues raised by NIST-Gaithersburg personnel or the public are otly.
748 749 750	(10) Providing stori	mwater metrics information required for MS4 permit reporting as ection 6.b(5).
/51 752 /53	(11) Obtaining and	maintaining training for GDCD personnel as identified in Section 6.f
754 755 756	` '	l records required by construction stormwater permits for a minimum of ne project has ended.
757 758 759		e Support Group Supervisor, Gaithersburg Facility Maintenance responsible for the following:
760 761 762 763 764	bioretention basis	naintaining stormwater best management features, such as microins, rain gardens, and swales, in accordance with MDE approved agement plans. With GFMD support, providing corrective action plans BMPs into compliance.
765 766 767	` ′	nwater management practices such as street sweeping and storm inlet ng to OFPM procedures.
768 769 770 771	and winter road	scaping practices, such as application of fertilizers, herbicides, pesticides, deicing/snow removal per best management practices identified in the urg Good Housekeeping Plan.
772 773 774 775	` '	ning to promote good housekeeping and minimize stormwater pollution nimum. Training may include in-person, online, toolbox talks, on-the-mats.
776 777	(5) Maintaining curr	rent pesticide application licenses and certifications.
778 779 780 781	disturbance and	vation and other earth-moving activities in a manner to minimize minimize erosion and sedimentation. Ensuring that proper sediment and measures are implemented.

782 783		(7) Obtaining and maintaining training for personnel as identified by the EMG Group L and documented in the MS4 annual reports.		
784		•		
785 786		(8) Maintaining consistent ground cover throughout the NIST-Gaithersburg Site to promote soil stabilization and minimize erosion.		
787				
788		(9) Ensuring that any unauthorized release to the stormwater system or other		
789 790		nonconformance with this suborder is immediately reported to the EMG.		
791 792 793		(10) Maintaining records of maintenance activities on stormwater or erosion control elements.		
794 795 796		(11) Collecting and maintaining records on street sweeping and storm inlet cleaning per Section 6.d.		
790 797	i.	Site Services Group Leader, Facilities Services Division, OFPM is responsible for the		
798 799	1.	following:		
800 801 802		(1) Performing vehicle maintenance and refueling per best management practices identified in the NIST-Gaithersburg Good Housekeeping Plan.		
803 804		(2) Performing vehicle washing per best management practices identified in the NIST-Gaithersburg Good Housekeeping Plan.		
805 806 807	j.	NIST Fire Department is responsible for the following:		
808 809		(1) Receiving notifications of spills through the emergency notification system (x2222).		
810 811		(2) Serving as incident commander and providing 24-hour emergency response to contain, control and clean up spills.		
812 813 814		(3) Contacting the EMG when a spill is reported through the emergency notification system.		
815 816		(4) When the EMG is not on-site (off hours), NIST Fire Department shall:		
817 818		(a) Ensure spill cleanups are complete;		
819 820 821		(b) Collect and retain all spill cleanup material, <i>e.g.</i> , absorbent pads, granular absorbent, recovered liquids, in appropriate containers;		

822 823		(c) Provide required regulatory agency spill notifications; and
824		(d) Contact the EMG for waste disposal.
825 826 827	k.	<u>Department of Commerce Police</u> are responsible for the following
828 829		(a) Notifying the NIST Fire Department of unauthorized releases to the stormwater system;
830 831		(b) Securing areas around reported releases; and
832 833		(c) Serving as incident commander until relieved by the NIST Fire Department.
834 835	10	. AUTHORITIES
836 837	Fo	r authorities applicable to all NIST Environmental Suborders, see of NIST O 7301.00.
838 839	a.	Stormwater Inspectors and inspection team members are authorized to:
840 841 842 843		(1) Enter any construction site or other work area without delay. Access shall be provided during regular working hours and other reasonable times, within reasonable limits, and in a reasonable manner;
844 845 846		(2) Inspect and investigate workspaces including all pertinent conditions, structures, machines, apparatus, devices, equipment, and materials therein;
847 848		(3) Consult with a reasonable number of employees during the walkaround;
849 850		(4) Question privately any worker, supervisor, or manager in charge of the workspace; and
851 852 853 854		(5) Deny the right of accompaniment to any person whose participation interferes with a fair and orderly inspection.
855	11	. DIRECTIVE OWNER
856 857 858	Cł	nief Safety Officer
859		. APPENDICES
860 861	A.	Revision History

#### 862 863

#### Appendix A. Revision History

Revision	Approval	Effective	Description of Change
	Date	Date	
None	02/09/2022	XX/XX/202X	None – Initial Document
1	08/23/2023	XX/XX/202X	Corrected numbering on referenced suborders.
2	9/22/2023		Corrected training in GDCD responsibilities section

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