



## *2013 Stormwater Management Program*

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**King County**

Department of  
Natural Resources and Parks

**Water and Land Resources Division**

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## **INTRODUCTION**

This document, King County's 2013 Stormwater Management Program (SWMP) describes the actions and programs implemented by King County agencies that protect stormwater in unincorporated King County and on King County facilities located in other jurisdictions. It covers King County's municipal operations and facilities that have the potential to impact the quantity and quality of stormwater runoff that is eventually discharged to the lakes, rivers and streams of the Puget Sound basin. King County's National Pollutant Discharge Elimination System (NPDES) municipal stormwater permit defines a SWMP as "a set of actions comprising" the ten components outlined in Section S5.C. In the SWMP, King County is required to describe its programs and efforts which address the permit requirements of the ten sections of S5.C. This documentation is required to be updated and submitted to the Washington State Department of Ecology (Ecology) annually. While the SWMP is considered a "living document" that can be changed at any point during the year, this version, submitted to Ecology describes King County's current 2013 program as of March 31, 2013.

The federally mandated NPDES program was established by Congress as part of the Federal Pollution Control Act, Amendments of 1972 as amended in 1977 and 1987 (the Clean Water Act) with the intent to preserve and restore the beneficial uses of the waters of the United States. The NPDES program regulates numerous sources of water pollution through a series of permits focused on different activities, industries and other waste water and stormwater discharge sources. The Environmental Protection Agency (EPA) delegates NPDES permitting authority directly to the State of Washington which manages the NPDES permit program through its Department of Ecology.

This document describes the efforts of King County to comply with its NPDES municipal stormwater permit. This permit covers discharges from the municipal separate storm sewer system (MS4) that King County owns and operates. In most urbanized areas and much of unincorporated King County, separate sets of underground pipes are used to carry sewage wastewater and non-sewage stormwater to discharge locations or outfalls. The sewage wastewater is routed to a treatment plant and the stormwater typically goes directly to an outfall. Certain stormwater discharges from King County facilities at specific sites, are covered by other types of NPDES permits. These include individual permits for King County's wastewater outfalls and for discharges at the Cedar Hills Regional Landfill; the Industrial Sand and Gravel permits for gravel pits operated by the Road Services Division; General Industrial Permits held by the Transit Division for regional bus facilities and the Wastewater Division's South Treatment Plant; and the construction stormwater permit for construction sites of one acre and larger in size.

The NPDES municipal stormwater program was implemented nationally in two phases. Under Phase I, only municipalities whose 1990 census populations exceeded 100,000 were covered under the municipal stormwater permit. In Washington, this included Clark, King, Pierce, and Snohomish counties, the cities of Seattle and Tacoma, and the Washington State Department of Transportation. Phase II was implemented in 2007 and extended municipal stormwater permit coverage to most municipalities in the Puget Sound Basin, 33 jurisdictions in King County and 113 jurisdictions state wide. The NPDES municipal stormwater program requires permittees to use stormwater best management practices (BMPs), which range in scope from constructing new drainage structures to educating the public, for the purpose of reducing the discharge of pollutants to the maximum extent practicable.

Municipal stormwater discharges from unincorporated King County have been covered by a Phase I Municipal Stormwater Permit since 1995. However, on February 16, 2007 a new, significantly more comprehensive Phase I permit (2007 Permit) took effect. The 2007 Permit required the County to significantly increase its level of effort and funding for stormwater management programs and actions, and includes a compliance timetable that began in 2007. The 2007 Permit was modified slightly as a result of legal challenges and this modified permit (2009 Permit) became official on June 17, 2009.

In 2012 the 2009 permit expired, and Ecology issued two new permits. The first one was issued to become effective on September 1, 2012, and expires on July 31, 2013, and is referred to as the “one-year permit”. This is the permit we are currently regulated by and which this SWMP plan is written. The second permit becomes effective on August 1, 2013 and expires on July 31, 2018, and is referred to as the “5-year permit”. The content of the one-year permit is largely identical to the 2009 permit with some minor changes related to the illicit connections and illicit discharges detection and elimination (IC/IDDE) and monitoring sections. However, the 5-year permit contains significant revisions and new requirements. Included in the 5-year permit are significant new requirements in the following sections of the permit:

- Mapping,
- New development, redevelopment, and construction,
- Structural stormwater controls
- IC/IDDE
- Operations and maintenance
- Public education and outreach
- Basin Planning
- TMDL
- Monitoring

When the 5-year permit becomes effective, King County will adjust its existing programs to comply with the new requirements. This planning and budgeting process was started by King County nearly two years ago when the first drafts of this new permit were distributed. The County has undertaken a significant internal process to ensure that we are able to fully implement the requirements of the 5-year permit as it will require some significant new bodies of work. As these requirements take effect the program descriptions will be included in the corresponding year’s SWMP plan. There is no annual reporting requirement under the 5-year permit for calendar year 2014. However, King County will be developing a new SWMP plan for 2014 and posting it to our SWMP websites as we have done since 2008.

This SWMP is focused on the County’s proposed 2013 compliance actions for the one-year permit.

The one-year permit impacts the County in a number of its roles.

1. As the local land use authority for the unincorporated area, the County must have appropriate codes, regulations, enforcement, and education capacity to reduce water-polluting practices and to increase or promote practices that protect water quality.
2. As a landowner and property manager, the County must ensure that its own practices meet regulatory standards.
3. As a local government, the County must implement a monitoring program that measures stormwater pollutants and the effectiveness of commonly used BMPs. The County must also assess the appropriateness of the BMPs for the SWMP components to determine their effectiveness, and identify necessary changes.
4. As a regional government and a local provider of stormwater management services, and in recognition of the fact that stormwater drainage goes beyond municipal boundaries, the County works in coordination with other municipalities, and ensures the coordination and cooperation between the various departments within the County to achieve compliance with permit requirements.

Section S5.C of the one-year permit contains the ten required SWMP components. The County is already in compliance with program component 1, and continues its ongoing compliance efforts in components 2 through 10. For convenience, and to comply with S5.A.1, the County's SWMP is organized by these ten permit components. Each is described below with reference to the one-year permit conditions:

1. Legal Authority. Codes and regulations must be in place giving the County the power to control discharges to its storm drain system.
2. Mapping. Under the one-year permit, the County must continue completing various components of its municipal separate storm sewer system (MS4) mapping effort.
3. Intra-governmental Coordination. The County must have a written intra-governmental coordination agreement in addition to intergovernmental coordination mechanisms with other permitted agencies and jurisdictions.
4. Public Involvement. The County's SWMP is updated annually and the public must be provided with an opportunity to be involved in this process each year.
5. Control of runoff from new development, redevelopment and construction sites. The County must use drainage design and source control rules equivalent to those in Ecology's 2005 Stormwater Management Manual for Western Washington (2005 Manual) and must meet newly established standards for staff training and inspections. Under the one-year permit, all County development projects (including those located in other jurisdictions) must comply with the County's equivalent manual if it is more stringent than that of the jurisdiction in which the development is occurring.
6. Structural Stormwater Controls. The County must provide details about the goals of capital projects aimed at reducing the quantity and quality impacts of stormwater from

past, present and future land development, and the estimated benefits of those projects must be quantified.

7. Source Control Program for Existing Development. County source control BMPs must be equivalent to those in Ecology's 2005 Manual, and standards for staff training must be set. The one-year permit also requires a source control inspection program for identifying and inspecting pollution-generating sites that discharge to the MS4.
8. Illicit Connections and Illicit Discharges Detection and Elimination (IC/IDDE). The County must implement stringent King County water quality codes, and set staff training standards. This section also requires the implementation of an illicit discharge program which includes a spill response program; inspection of County outfalls for illicit discharges; and, a program to identify and rectify illicit discharges and connections, including a progressive enforcement program.
9. Operation and Maintenance Program. County maintenance standards must be equal to those in the 2005 Ecology Manual, and standards must be developed for practices that are not covered. Rigorous maintenance schedules and cleaning performance measures are required, and stormwater pollution prevention plans (SWPPPs) are now required for certain categories of municipal sites.
10. Education and Outreach Program. Target audiences and topics are specified, along with a requirement to measure program effectiveness and work regionally. These requirements are identical to the previous permit.

The one-year permit also requires a continuation and completion of the stormwater monitoring studies began under the 2009 permit to identify pollutants in stormwater, assess the effectiveness of commonly used control facilities, and provide information for improving stormwater management. The one-year permit's annual reporting document has a standardized format and the reporting requirements are largely identical to the 2009 permit's requirements.

Various agencies within the County government have been identified as having significant roles in implementing different sections of the 2013 SWMP. Further detail about their specific roles and responsibilities are listed in the compliance tracking forms (CTFs) which are included in the SWMP as Appendix 6.

- The Department of Natural Resources and Parks (DNRP), through the Water and Land Resources Division (WLRD), is charged with coordinating the SWMP and annual reporting. WLRD also manages the coordination, public involvement, manual equivalency, structural stormwater control, and public education portions of the SWMP. WLRD also has a significant role in the County's mapping, source control, IDDE, and operations and maintenance programs. WLRD is coordinating and conducting much of the training that is required, including training for both DNRP and other County Department's staff.
- Many King County Divisions manage and develop properties and facilities that are covered under this permit. These divisions include:
  - Department of Natural Resources and Parks (DNRP)

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- Solid Waste Division (Solid Waste)
- Parks and Recreation Division (Parks)
- Wastewater Treatment Division (Wastewater)
- Water and Land Resources Division (WLRD)
  - Stormwater Services Section (SWS)
  - Rivers and Floodplain Management Unit (Rivers)
- Department of Transportation (DOT)
  - Road Services Division (Roads)
  - Metro Transit Division (Transit)
  - Airport Division (Airport)
- Department of Executive Services (DES)
  - Facilities Management Division (FMD)
- Drainage facilities on any lands owned by these King County Divisions must be designed, mapped, and maintained in a manner consistent with permit requirements and the King County Surface Water Design Manual (SWDM), and King County's source control BMPs for pollutant-generating activities must be used. Some staff training requirements also apply. SWPPPs must be prepared for applicable facilities. Roads and SWS co-lead the coordination of the County mapping program and Roads partners with WLRD on developing and administering some required training.
- The Department of Permitting and Environmental Review (DPER) is responsible for ensuring the requirements of the 2009 permit and the SWDM are applied to new development and re-development sites through permitting, inspections and enforcement. For the County, this action includes not just the SWDM and Stormwater Pollution Prevention Manual (SPPM) but also related codes, which are applied to new development and re-development sites within the confines of state vesting law.
- The Department of Public Health – Seattle & King County's (PHSKC) wastewater program has oversight of onsite sewage systems throughout King County. Corrective actions are taken where there is evidence indicating failing onsite systems are introducing contaminants into stormwater systems. In addition, PHSKC regulates and inspects a variety of businesses located throughout the County and can identify potential illicit discharges or connections to the stormwater system.

Many of the necessary permit compliance activities are conducted by WLRD and financed through the County's Surface Water Management (SWM) Fee

<http://www.kingcounty.gov/environment/wlr/surface-water-mgt-fee.aspx>. The mandated

programs and program modifications needed in 2013 for permit compliance have been budgeted and are proceeding as described herein.

Recently, King County Council approved a 13.5% increase in the SWM fee rate, which translates for the typical property owner to approximately \$1.50 monthly increase in this fee. SWM rate increases are taken very seriously by King County which strives to use every dollar of public funds as effectively as possible. However, with the new requirements of the 5-year permit, it was clear that further revenue would be needed to comply with the permit. The rate increases are effective for 2013 and 2014, and will result in improved water quality, a stronger facility maintenance program, expanded drainage assistance, and accelerated habitat protection. For further information about the SWM fee please see:

<http://www.kingcounty.gov/environment/wlr/surface-water-mgt-fee.aspx>

Future budget increases to meet future permit requirements have not yet been budgeted and will be particularly challenging as the County's SWM fee revenues decline as a result of planned annexations of urban areas. Although the need for the County to provide permit-required services in these areas will be eliminated as they are assumed by the annexing city, the loss in service costs is typically less than the loss in revenue collected. This is because only a portion of the service costs is for direct services to specific areas. Many costs (such as those for SWMP tracking, updating, and reporting; coordination; public involvement; updating regulations; monitoring, etc.) apply to the municipality as a whole, regardless of size.

Even after annexations occur, the County's remaining unincorporated area will continue to have some higher-density areas (more than one dwelling unit/acre) that require suburban levels of service and significant management of stormwater facilities. Consequently, the County will continue to need to fund the more traditional stormwater management services required by the Permit.

As single-lot and lower-density subdivision development continues in the rural area, there will be an increase in nontraditional stormwater controls. These include forest retention, reduced impervious surface footprints and other low-impact development techniques such as flow dispersion and infiltration, rain gardens and use of pervious surface technologies. These new features will require additional construction and maintenance inspections by the County to ensure new types of controls are properly installed and maintained. This will add to the challenges for Permit compliance and public funding.

King County faces real challenges as it transitions to a suburban and rural service provider. Increasingly, the stormwater management program will be addressing a landscape made up of agricultural and forest lands interspersed with rural residential and rural town centers with concentrations of suburban service areas. At the same time, the ratepayer base will shrink. The stormwater and water quality service needs of these diverse landscapes will be quite different but often not less expensive than those defined in more urban areas. In addition many permit requirements are service area wide and do not cost less with less area, and while services change and revenues decrease, costs do not go down proportionately.

WLRD will continue to revise its business plan and financial strategies to address these future challenges in Permit compliance and other stormwater management needs.

## S5. STORMWATER MANAGEMENT PROGRAM

### **Preface**

The County has provided effective programs to manage stormwater runoff caused by land development for more than 20 years. The goal of these programs is to protect people and natural resources from damage caused by uncontrolled runoff and pollutants in stormwater. Where such damage has already occurred, the County's goal is to repair that damage.

When land is cleared, compacted, or covered with hard (impervious) surfaces as it is developed, rainfall and melting snow flow across the land surface instead of being taken up by plants or seeping into the surface soils and ultimately entering the groundwater. As this surface water runoff, or stormwater, flows across the landscape, it typically picks up various pollutants, including herbicides, pesticides, fertilizers, pet wastes, oils and metals from vehicles, and many other chemicals. While not obvious, sediment is the most common pollutant carried by stormwater, and it poses a threat to water quality by smothering fish eggs, clouding clear waters, and transporting other pollutants through ground and surface waters. All of these pollutants can enter surface waters, disrupt ecosystem processes, and, in some cases, also threaten public health. As less water is being retained by soils and plants; more water, than under natural conditions, flows into our streams, rivers and stormwater drainage structures. These extra volumes of runoff can cause erosion by scouring out river and stream banks and beds in winter. Since much of the water that would have been retained in the soil during the winter instead flowed away, these waterways are often warmer and slower flowing or even dry in the summer. These altered streams channels then may need reinforcing with man-made structures or restoring back to more natural conditions.

As stormwater does not recognize jurisdictional boundaries, the problems created by stormwater are larger than any one jurisdiction or agency within a jurisdiction. To this end, the County has had, and continues to have, a strong commitment to inter- and intra-governmental coordination. Stormwater has been identified as one of the leading contributors to the decline of Puget Sound. To address this issue, the County and the other jurisdictions that share the Puget Sound basin must coordinate their stormwater management activities.

This SWMP describes the actions the County is taking in 2013 to avoid, reduce, and repair damages caused by the quantity and quality of stormwater runoff. In addition to the primary actions the County takes to achieve the goals of its SWMP, the program includes descriptions of other management actions that the County implements for other purposes but that also help solve or prevent stormwater problems. These actions relate to the condition of land surfaces and include: forestry programs, protection of critical areas, enforcement of clearing and grading regulations, purchase of open space, and restoration of Chinook habitat to prevent, reduce or repair stormwater damage. Many of the stormwater programs also provide other public benefits.

The SWMP has been prepared according to sections S5.A., B., and C. of the one-year permit (NPDES and State Waste Discharge General Permit for Discharges from Large and Medium Municipal Separate Storm Sewer Systems, Permit Number WAR04-4501)

Section S5.C. contains the ten required program components. Each component has several required goals that are indicated with a lower-case "a" (e.g., S5.C.1.a.). Each goal's compliance performance measures are indicated with a lower-case "b", (e.g., S5.C.1.b.). For the most part,

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the passages describing the County's compliance program are found only in the "b," or performance measure portions. For reference and convenience, the NPDES permit language is shown in italic text, followed by the County's proposed compliance shown in regular text.

## **S5.A.**

*Each permittee listed in S1.B. shall implement a Stormwater Management Program (SWMP) during the term of this permit. For the purpose of this permit a stormwater management program is a set of actions comprising the components listed in S5.C. and additional actions and activities, where necessary, to meet the requirements of S7 Compliance with Total Maximum Daily Load Requirements.*

### **S5.A.1.**

*In accordance with the requirements in S9 Reporting Requirements, each Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats with the first year annual report. The documentation of the SWMP shall be organized according to the program components in S5.C., and shall be updated annually. The SWMP documentation shall include a description of each of the program components included in S5.C., and any additional actions necessary to meet the requirements of applicable TMDLs.*

## **S5.B.**

*The SWMP shall be designed to reduce the discharge of pollutants from MS4s to the maximum extent practicable, meet state AKART requirements, and protect water quality.*

*Permittees are to continue implementation of existing stormwater management programs until they begin implementation of the updated stormwater management program in accordance with the terms of this permit, including implementation schedules.*

## **S5.C.**

*The SWMP shall include the components listed below. The requirements of the stormwater management program shall apply to municipal separate storm sewers, and areas served by municipal separate storm sewers owned or operated by the Permittee. To the extent allowable under state and federal law, all SWMP components are mandatory.*

### **S5.C.1. Legal Authority**

#### **S5.C.1.a.**

*No later than the effective date of this permit, each Permittee shall be able to demonstrate that they can operate pursuant to legal authority which authorizes or enables the Permittee to control discharges to and from municipal separate storm sewers owned or operated by the Permittee.*

#### **S5.C.1.b.**

*This legal authority, which may be a combination of statute, ordinance, permit, contracts, orders, interagency agreements, or similar means, shall authorize or enable the Permittee, at a minimum, to:*

##### **S5.C.1.b.i.**

*Control through ordinance, order, or similar means, the contribution of pollutants to municipal separate storm sewers owned or operated by the Permittee from stormwater discharges associated with industrial activity, and control the quality of stormwater discharged from sites of industrial activity;*

See the response to S5.C.1.b.iii.

**S5.C.1.b.ii.**

*Prohibit through ordinance, order, or similar means, illicit discharges to the municipal separate storm sewer owned or operated by the Permittee;*

See the response to S5.C.1.b.iii.

**S5.C.1.b.iii.**

*Control through ordinance, order, or similar means, the discharge of spills and disposal of materials other than stormwater into the municipal separate storm sewers owned or operated by the Permittee;*

King County Code (KCC) 9.12 is the code used for the County's water quality compliance program since 1992 and addresses S5.C.1.b.i through iii by prohibiting the discharge of any contaminants into surface and stormwater. The purpose of this code is to protect the County's surface and ground water quality by providing minimum requirements for reducing and controlling the discharge of contaminants. This code prohibits the discharge of contaminants into surface and stormwater and groundwater, and outlines preventive measures to restrict contaminants from entering such waters. These measures include the implementation of BMPs by the residents of King County. The intent of this code is the minimization or elimination of water quality degradation; preservation and enhancement of waters for recreation, fishing, and other beneficial uses; and preservation and enhancement of the aesthetic quality and biotic integrity of the water. The current code is found at the following URL: [http://www.kingcounty.gov/council/legislation/kc\\_code/12\\_Title\\_9.aspx](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

**S5.C.1.b.iv.**

*Control through interagency agreements among co-applicants, the contribution of pollutants from one portion of the municipal separate storm sewer system to another portion of the municipal separate storm sewer system;*

The County is a co-permittee with the City of Seattle (Seattle) for the Densmore and Landor Basins. The County's general obligations to the City in that basin are summarized in a Memorandum of Agreement (MOA) dated September 25, 1995. The County and Seattle are in ongoing discussions to track the issues currently covered by the MOA and to ensure concurrence on King County's scope of work in these basins

**S5.C.1.b.v.**

*Require compliance with conditions in ordinances, permits, contracts, or orders; and,*

King County Code 9.12.045 - 9.12.080 authorizes implementation and enforcement of Chapter 9.12. King County Code Title 23 provides supplementary authority for the implementation and enforcement of code. Title 9 and Title 23 are found at the following URLs: [http://www.kingcounty.gov/council/legislation/kc\\_code/12\\_Title\\_9.aspx](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

[http://www.kingcounty.gov/council/legislation/kc\\_code/32\\_Title\\_23.aspx](http://www.kingcounty.gov/council/legislation/kc_code/32_Title_23.aspx)

**S5.C.1.b.vi.**

*Within the limitations of state law, carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance and non-compliance with permit conditions, including the prohibition on illicit discharges to the municipal separate storm sewer and compliance with local ordinances.*

Custodial agencies of King County are agencies that are owners, operators or managers of King County properties. These agencies are Solid Waste, Wastewater, Roads, Transit, Airport, Parks, FMD, WLRD, SWS and Rivers. These agencies perform regularly scheduled inspections of their respective properties and facilities to inspect requisite BMPs and to determine the presence of illicit discharges to the MS4. These discharges include spills, illegal dumping, illicit connections, and other illegal activities. These programs are detailed in sections S5.C.5, S5.C.7 and S5.C.8 and in the attached CTFs. DPER performs the inspections and enforcement related to County-issued Permit conditions. DNRP, through SWS of WLRD, performs the inspections and enforcement related to the prohibition of illicit discharges per King County Code 9.12. PHSKC conducts enforcement of illegal dumping and illicit dischargers using Board of Health Code. Title 9 and Board of Health Codes are found at the following URLs:

[http://www.kingcounty.gov/council/legislation/kc\\_code/12\\_Title\\_9.aspx](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

<http://www.kingcounty.gov/healthservices/health/BOH/code.aspx>

## **S5.C.2. Municipal Separate Storm Sewer System Mapping and Documentation**

### **S5.C.2.a.**

*The SWMP shall include an ongoing program for mapping and documenting the MS4.*

### **S5.C.2.b.**

*Minimum performance measures information and its form of retention shall include:*

#### **S5.C.2.b.i.**

*Each Permittee shall map all known municipal separate storm sewer outfalls and receiving waters, and structural stormwater treatment and flow control BMPs owned, operated, or maintained by the Permittee. Mapping of outfalls and structural BMPs shall continue on an ongoing basis as additional outfalls are found, and as new BMPs are constructed or installed. Each permittee shall continue a program to map connection points between municipal separate storm sewers owned or operated by the Permittee and other municipalities or other public entities.*

To comply with our previous two NPDES Permits, the County initiated a program to map its MS4. This mapping included facilities, conveyance systems and outfalls; and connections between the County's system and those of other public entities and private properties. This mapping also included properties owned and operated by King County that are located in other jurisdictions.

King County has mapped and compiled all known MS4 outfalls, receiving waters, and structural treatment and flow control BMPs that it owns, operates or maintains. While the County's mapping programs have been conducted by its custodial agencies, the County has compiled this data and is launching a new central geo-database using the County's GIS system. The County will use this new geo-database to identify areas of the County that need further mapping and identify stormwater system features that require additional attribute refinement. The County has begun the migration of data to the central system and initiated the implementation of data collection and storage processes which will result in a standardized system. This standardized geo-database will meet permit requirements as well as enable the County to create interfaces that will streamline the update process and make the data more accessible for subsequent queries, mapping and analyses.

The County will continue its current field mapping program whose collection methods include Geographic Positioning System (GPS) surveys on foot, aggregation of data from as-built plans, and data collection from mobile mapping vans.

Additional outfalls, conveyance systems, and facilities that comprise part of the King County owned and operated MS4 will be surveyed and added to the database as these are identified. The County has enacted a program to capture additions to the system by private developers and public agencies after they receive final construction approval. As the new facilities and conveyance systems are approved and installed, these will be included in the master drainage map. Receiving waters have already been mapped and are available on separate GIS layers.

King County has been coordinating an effort to map connection points with other municipal separate storm sewers (MS3s). The primary forum currently used is the mapping committee of NPDES Regional Operations and Maintenance Program (ROAD MAP). Some of the work products being developed include interlocal agreements to coordinate mapping connection efforts and protocols for mapping connected systems.

**S5.C.2.b.ii.**

*Each Permittee shall map the attributes listed below for all storm sewer outfalls with a 24 inches nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems. For Counties, the mapping shall be done within urban/higher density rural sub-basins. For Cities, the mapping shall be done throughout the City. Attributes mapped shall include: Land use, Tributary conveyances (indicate type, material, and size where known); and associated drainage areas.*

King County has completed the appropriate GIS layers to meet this permit requirement. As described in section Section S5.C2.b.i., ongoing mapping continues to improve the spatial coverage, as concurrent geo-database upgrades will improve the overall data quality. The urban/higher density rural sub-basins have already been identified and King County's mapping efforts have focused on the higher-density rural drainage basins. A map of these basins has been included as Appendix 5. This general approach has been used because the higher-density rural drainage basins have significant infrastructure and related maintenance activities and are not likely candidates for annexation.

**S5.C.2.b.iii.**

*Each Permittee shall continue a program to develop and maintain a map of all connections to the municipal separate storm sewer authorized or allowed by the Permittee after February 16, 2007.*

King County has a program that identifies new connections to the MS4 through the building permit records process at DPER. The submittal of electronic copies of newly constructed drainage systems that will be owned by the County are required as part of permit review. Private connections allowed under new permits will be manually added by SWS to the GIS map of the County's MS4. Various custodial agencies within the County will be responsible for updating the geo-database with the relevant information about the new facilities.

**S5.C.2.b.iv.**

*Each Permittee shall map existing, known connections over 8" to municipal separate storm sewers tributary to all storm sewer outfalls with a 24" inches nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems, according to the following schedule:*

- *City of Seattle and City of Tacoma: by February 16, 2009.*
- *Clark, King Pierce and Snohomish Counties: one half the area of the County within urban/higher density rural sub-basins by February 16, 2011.*

All known connections over eight inches to municipal separate storm sewers tributary to all storm sewer outfalls with a 24 inches nominal diameter or larger, or an equivalent cross-sectional areas for non-pipe systems have been mapped under an existing program. The County has completed mapping half of the area of the County within the urban/higher density rural sub-basins using the mapping program described in Section S5.C2.b.i

**S5.C.2.b.v.**

*Each Permittee shall map geographic areas served by the Permittee's MS4 that do not discharge stormwater to surface water.*

The location of King County's known flow control and treatment facilities, conveyance systems, and outfalls have been mapped as described in Section S5.C.2.b.i. The County has used this geo-database to identify those geographic areas that do not discharge to surface water. No catchments within unincorporated King County are allowed to discharge to sanitary sewer systems. As the stormwater systems that do not discharge to surface water continue to be identified, the tributary areas will be determined and mapped. This will not include systems that discharge to groundwater through Underground Injection Control (UIC) structures. Those systems are mapped and regulated under Chapter 173-218 WAC.

**S5.C.2.b.vi.**

*To the extent consistent with national security laws and directives, each Permittee shall make available to Ecology, upon request, available maps depicting the information required in S5.C.2.b.i. through v., above. The preferred format of submission will be an electronic format with fully described mapping standards. An example description is available on Ecology's website. Notification of updated GIS data layers shall be included in annual reports.*

See the response to S5.C.2.b.vii.

**S5.C.2.b.vii.**

*Upon request, and to the extent appropriate, Permittees shall provide mapping information to Co-Permittees and Secondary Permittees. This permit does not preclude Permittees from recovering reasonable costs associated with fulfilling mapping information requests by Co-Permittees and Secondary Permittees.*

The County is prepared to respond appropriately to the mapping requests of Ecology and any Co-Permittees and Secondary Permittees. Requests should be addressed to Curt Crawford, Storm Water Services Section Manager, Water and Land Resources Division, 201 S. Jackson Street, Suite 600, Seattle, WA 98104-3855, or by e-mail at [Curt.Crawford@kingcounty.gov](mailto:Curt.Crawford@kingcounty.gov).

### **S5.C.3. Coordination**

#### **S5.C.3.a.**

*The SWMP shall include coordination mechanisms among departments within each jurisdiction to eliminate barriers to compliance with the terms of this permit. The SWMP shall also include coordination mechanisms among entities covered under a municipal stormwater NPDES permit to encourage coordinated stormwater-related policies, programs and projects within a watershed.*

#### **S5.C.3.b.**

*Minimum performance measures:*

##### **S5.C.3.b.i.**

*Implement written, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.*

An order, signed by the previous County Executive, establishes the mechanism by which the various entities of County government will participate in permit compliance. The order was effective November 20, 2007, is currently still in effect, and may be read at the following Web site:

<http://www.kingcounty.gov/operations/policies/executive/utilitiesaeo/put819aeo.aspx>

##### **S5.C.3.b.ii.**

*Within 2 years following the addition of a new Secondary Permittee, establish:*

- *Coordination mechanisms clarifying roles and responsibilities for the control of pollutants between physically interconnected MS3s of the Permittee and any other Permittee covered by a municipal stormwater permit.*
- *Coordinating stormwater management activities for shared waterbodies, among Permittees and Secondary Permittees, to avoid conflicting plans, policies and regulations.*

*Permittees shall document their efforts to establish the required coordination mechanisms. Failure to effectively coordinate is not a permit violation provided other entities, whose actions the Permittee has no or limited control over, refuse to cooperate.*

King County is instrumental in convening, supporting, and participating in numerous regional forums with other municipalities to develop and implement collaborative stormwater management programs. As is evident in the breadth of the stormwater permit, there are many regional groups focused on different aspects of stormwater management in which King County plays an important role. These forums include the following:

- Stormwater Outreach for Regional Municipalities (STORM) is a regional coordination organization comprised of Phase I and Phase II Municipal NPDES permit holders whose purpose is to coordinate public education and outreach efforts related to stormwater pollution prevention. This group was awarded a grant by Ecology to assemble and launch a public education campaign on stormwater. This campaign, Puget Sound Starts Here ([www.pugetsoundstartshere.org](http://www.pugetsoundstartshere.org)) was successfully launched in 2009. STORM has an ongoing relationship with the Puget

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Sound Partnership (PSP) that focuses on coordinating shared outreach messages and complimentary outreach activities.

- ROAD MAP is a regional coordination organization comprised of Phase I and Phase II Municipal NPDES permit holders whose purpose is to develop coordinated programs and tools to address operations and maintenance requirements within the municipal stormwater permits. ROAD MAP has formed committees to address IC/IDDE, regional stormwater mapping, permit tracking tools, and coordination of training programs.
- The Regional Permit Coordinators' Forum is a regional coordination organization comprised of Phase I and Phase II Municipal NPDES permit holders whose purpose is to provide a forum to discuss permit and stormwater related issues concerning permit holders, share current information, and identify solutions and future issues.
- The Phase I Permit Coordinators Group is a regional coordination organization comprised of Phase I Municipal NPDES permit holders that has been meeting since the issuance of the 1995 permit. The purpose of this group is to provide a forum to discuss permit and stormwater related issues concerning Phase I permit holders, share current information, and identify solutions and future issues.
- The Stormwater Managers Committee of the Washington State Chapter of the American Public Works Association (APWA) is a regional committee of stormwater professionals from both the public and private sector. This group has been an important partner in the region in addressing stormwater issues, developing local consensus on issues, and reporting out to regional agencies and governments. The APWA also provides a forum for the presentation of studies and new products.
- The Water Quality Partnership is a standing policy advisory committee on the State's water quality management functions. This committee is sponsored by Ecology and provides water quality professionals from both the public and private sector an opportunity to review information on Ecology programs presented by senior staff of Ecology. Subject matter includes budget, permits, regulations, state studies, and reports from other programs within Ecology. This group is often drawn upon to provide staffing for stakeholder groups.
- The Stormwater Work Group (SWG) was formed in 2008 to develop a coordinated stormwater monitoring program for the Puget Sound region. This coordinated stormwater monitoring program is intended to provide the best scientific information needed to more effectively manage stormwater and reduce environmental harm. The SWG is part of the Puget Sound Ecosystem Monitoring Program (PSEMP) and is comprised of a coalition of representatives of local, state, and federal governments, environmental and business organizations, tribes, and agriculture. The monitoring requirements in the next 5-year permits (August 2013-July 2018) for both Phase I and Phase II Puget Sound municipalities are based on recommendations from the SWG and differ substantially from monitoring requirements under existing permits.

King County has and will continue to contribute significant staff time and resources to the PSP. King County staff are serving on multiple committees and groups within the PSP. The

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County also is the service provider to and cost share partner in the staffing and management of the Water Resource Inventory Areas (WRIA) Salmon Recovery forums in WRIAs 8 and 9, and the Snoqualmie Watershed and an active participant in WRIA 7 and 10 forums. In addition, King County is active in the collaborative planning and stormwater-related improvements for the Salmon, Miller, Walker, Des Moines, and Juanita Creek Basins. The participation in, and relationships established in these groups form the basis for the timely coordination mechanisms and coordinated activities required above.

## **S5.C.4. Public Involvement and Participation**

### **S5.C.4.a.**

*The SWMP shall provide ongoing opportunities for public involvement in the Permittee's stormwater management program and implementation priorities.*

### **S5.C.4.b.**

*Minimum performance measures:*

#### **S5.C.4.b.i.**

*Implement a process to create opportunities for the public to participate in processes involving the development, implementation and update of the Permittee's SWMP. Each Permittee shall develop and implement a process for consideration of public comments on their SWMP.*

For the 2010 SWMP, King County began a new public involvement process. In an effort to expand the opportunities for the public to learn about the SWMP and comment on its contents, a series of explanatory videos were posted on the SWS Web site.

In 2011, a new series of videos were produced presenting the basics of stormwater management and providing an introduction to the contents of the SWMP. The 2011 videos were shorter in duration and have been divided by subject so that the public can more easily find the information they are looking for. To continue presenting the County's stormwater management efforts in an easy to understand and interactive method we have added new videos to the SWMP video web page for the 2013 program.

King County now has stormwater videos addressing the following subjects at [www.kingcounty.gov/stormwatervideos](http://www.kingcounty.gov/stormwatervideos)

- [What is stormwater and why is it important?](#)
- [Stormwater regulations – local and national](#)
- [King County Stormwater Management Plan](#)
- [How you can improve stormwater](#)
- [Pet waste and stormwater](#)
- [Septic systems and stormwater](#)
- [Soils and stormwater](#)
- [Roadside ditch stormwater study](#)
- [Illicit connection and illicit discharge detection and elimination](#)

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Along with these videos, the public review draft of the SWMP document and a public feedback survey has been posted on the SWS Web site. An emailing to almost 6,000 addresses announced the posting of the SWMP document and videos. Notices were also sent to local news outlets.

Additionally, public comments on the SWMP will continue to be accepted via an email account ([stormwater@kingcounty.gov](mailto:stormwater@kingcounty.gov)) that is available year-round for public comment on King County stormwater policy. Comments received will be compiled and posted on the SWS Web site, and issues raised by the comments will be addressed. In addition, County stormwater staff will be available to present information about the SWMP to public interest groups year round.

#### **S5.C.4.b.ii.**

*Each Permittee shall make their SWMP, the SWMP documentation required under S5.A.1. and all submittals required by this permit, including annual reports, available to the public, starting with the annual report for calendar year 2007, on the Permittee's website or submitted in electronic format to Ecology for posting on Ecology's website.*

The SWMP, the SWMP documentation required under S5.A.1 and all submittals required by this permit, including annual reports, shall be made available to the public, starting with the first annual report, via the King County Web site at the following address:

<http://www.kingcounty.gov/environment/wlr/stormwaterprogram.aspx>

## **S5.C.5. Controlling Runoff from New Development, Redevelopment and Construction Sites**

### **S5.C.5.a.**

*The SWMP shall include a program to prevent and control the impacts of runoff from new development, redevelopment, and construction activities. The program shall apply to private and public development, including roads.*

### **S5.C.5.b.**

*Minimum performance measures:*

#### **S5.C.5.b.i.**

*The Minimum Requirements, thresholds, and definitions in Appendix 1, or Minimum Requirements, thresholds, and definitions determined by Ecology to be equivalent to Appendix 1, for new development, redevelopment, and construction sites shall be included in ordinances or other enforceable documents adopted by the local government. Adjustment and variance criteria equivalent to those in Appendix 1 shall be included. More stringent requirements may be used, and/or certain requirements may be tailored to local circumstances through the use of basin plans or other similar water quality and quantity planning efforts. Such local requirements and thresholds shall provide equal or similar protection of receiving waters and equal or similar levels of pollutant control as compared to Appendix 1.*

The County has met this performance requirement. Minor amendments, requested by Ecology, were made in 2008 to our regulations for new development, redevelopment, and construction sites. The relevant codes and rules are set forth in the following list:

KCC 9.04 Surface Water Runoff Policy;

[http://www.kingcounty.gov/council/legislation/kc\\_code/12 Title 9.aspx](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

KCC 9.08 Water Quality;

[http://www.kingcounty.gov/council/legislation/kc\\_code/12 Title 9.aspx](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

KCC 16.82 Clearing and grading;

[http://www.kingcounty.gov/council/legislation/kc\\_code/19 Title 16.aspx](http://www.kingcounty.gov/council/legislation/kc_code/19_Title_16.aspx)

KCC 21A.24 Critical Areas;

[http://www.kingcounty.gov/council/legislation/kc\\_code/24\\_30 Title 21A.aspx](http://www.kingcounty.gov/council/legislation/kc_code/24_30_Title_21A.aspx)

the Surface Water Design Manual (SWDM)

<http://www.kingcounty.gov/environment/waterandland/stormwater/documents/surface-water-design-manual.aspx>

and, the Stormwater Pollution Prevention Manual (SPPM).

<http://www.kingcounty.gov/environment/waterandland/stormwater/documents/pollution-prevention-manual.aspx>).

**S5.C.5.b.ii.**

*The local requirements shall include a site planning process and BMP selection and design criteria that, when used to implement the minimum requirements in Appendix 1, will protect water quality, reduce the discharge of pollutants to the maximum extent practicable, and satisfy the state requirement under chapter 90.48 RCW to apply all known, available, and reasonable methods of prevention, control and treatment (AKART) prior to discharge. Permittees shall document how the criteria and requirements will protect water quality, reduce the discharge of pollutants to the maximum extent practicable, and satisfy the state AKART requirements.*

*Permittees who choose to use the site planning process, and BMP selection and design criteria in the 2005 Stormwater Management Manual for Western Washington [SMMWW], or an equivalent manual approved by Ecology, may cite this choice as their sole documentation to meet this requirement.*

The County chose to adopt an equivalent manual approved by Ecology and hereby cites this choice as the sole documentation of compliance with this requirement. After approval and adoption of enabling code by the King County Council in 2008, the current SWDM was adopted by public rule and became effective on January 9, 2009. It is posted at the following URL:

<http://www.kingcounty.gov/environment/waterandland/stormwater/documents/surface-water-design-manual.aspx>

Due to the appeal of the 2007 Permit to the Pollution Control Hearing Board (PCHB), the approval process for equivalency was ruled to require a public review process. Formal equivalency approval of the County's manual took place through a modification of the 2007 Permit by Ecology. The modified permit officially replaced the 2007 Permit with some minor changes on June 17, 2009.

**S5.C.5.b.iii.**

*Low Impact Development*

- (1) The program must allow non-structural preventive actions and source reduction approaches such as Low Impact Development Techniques (LID), to minimize the creation of impervious surfaces, and measures to minimize the disturbance of soils and vegetation.*
- (2) The program must require<sup>1</sup> non-structural preventive actions and source reduction approaches including Low Impact Development Techniques (LID), to minimize the creation of impervious surfaces, and measures to minimize the disturbance of soils and vegetation where feasible.*

<sup>1</sup> *In order to implement the Pollution Control Hearings Board's language in S5.C.5.b.iii, Ecology will initiate a process to define the scope of LID techniques to be considered, criteria for determining the feasibility of LID techniques, and a LID performance standard. When the process is complete, Ecology will incorporate the results and a deadline for implementation of S5.C.5.b.iii(2) into the permit through a permit modification*

County codes allow, encourage, and require the use of Low Impact Development (LID) BMPs where feasible, including specific measures used to minimize the disturbance of soils and vegetation. The SWDM requires the use of a minimum amount of LID BMPs (referred to as flow control BMPs) on nearly all projects and allows LID BMPs to be used as the sole means of managing stormwater for many projects. The LID BMPs allowed include preserving native vegetation and limiting impervious surface as well as a whole host of more structural BMPs such as permeable pavement, vegetated roofs, rain gardens, rainwater harvesting, infiltration systems, and dispersion devices. Examples of the LID BMPs used in rural areas include, but are not limited to, forest retention, fencing livestock out of streams, stream buffers, manure lagoons, and native plantings in stream buffers. In rural areas where LID flow and water quality control BMPs are used, forest, farm, and rural stewardship plans are developed by individual property owners, with support from WLRD or the King Conservation District (KCD), to establish, among other things, the customized maintenance standards for those BMPs.

The County meets this performance requirement as follows:

- KCC 9.04 and the SWDM require the application of LID flow control BMP techniques where feasible on all new development and redevelopment projects that are subject to drainage review. These required flow control BMPs include both non-structural BMPs (e.g., native vegetation retention and reduced footprint, etc.) and structural BMPs (e.g., infiltration trenches, dispersion trenches, rain gardens, etc.).
- [KCC 16.82.100](#) requires that clearing and grading activities minimize removal of the duff layer and native top soil and that disturbed soils be amended with compost or other organic matter to mitigate loss of soil moisture-holding capacity.

King County has an inspection program for privately owned flow control BMPs to determine the execution of the activities necessary to ensure the performance measures described in Appendix C of the SWDM.

Additionally, [King County's Critical Areas Ordinance](#) allows modification of standard aquatic, wetland and wildlife habitat conservation area buffers on properties zoned Rural Area residential (RA) when landowners submit an approved Rural Stewardship Plan that includes LID strategies. Rural Stewardship Plans promote minimal disturbance of native soils and vegetation. They decrease hydrologic changes by reducing development footprints and carefully siting developed areas, and by using on-site infiltration and dispersion techniques. The grading code requires that where soil is disturbed, a minimum of 8 inches of soil having an organic content of 8-13% must be provided. The zoning code prohibits clearing in stream and wetland buffers and limits clearing on steep slopes.

King County was involved with the LID committee enacted to address the LID issues raised as part of the Pollution Control Hearing Board's ruling on the appeal of the 2007 Permit.

**S5.C.5.b.iv.**

*Each Permittee shall implement a local program that meets the requirements in S5.C.5.b.i through iii., above. Ecology review and approval of the local manual and ordinances is required. Permittees shall provide detailed, written justification of any of the requirements that differ from those contained in Appendix 1 of this permit.*

The County completed the latest updates of its requirements, technical standards, and manual to achieve equivalency of these regulations with the Ecology manual in 2009. During this process the County made minor amendments to the following regulations:

Surface Water Design Manual

<http://www.kingcounty.gov/environment/waterandland/stormwater/documents/surface-water-design-manual.aspx>

Stormwater Pollution Prevention Manual

<http://www.kingcounty.gov/environment/waterandland/stormwater/documents/pollution-prevention-manual.aspx>,

[KCC 9.04 Surface Water Runoff Policy](#), [KCC 9.12 Water Quality](#), and

[KCC 16.82 Clearing and Grading](#).

The updates were submitted to King County Council in 2008 and approved for adoption. They were posted to King County's Web site in January of 2009.

Formal equivalency approval of the County's manual took place through a modification of the 2007 Permit by Ecology. The modified permit (2009 Permit) officially replaced the 2007 Permit with some minor changes on June 17, 2009.

**S5.C.5.b.v.**

*The program shall establish legal authority to inspect private stormwater facilities and enforce maintenance standards for all new development and redevelopment approved under the provisions of this section.*

The County currently meets this performance requirement through its adopted surface water code, as listed below:

- [KCC 9.04.120 Drainage facilities not accepted by King County for maintenance](#): A declaration of covenant granting King County authority to inspect private drainage facilities must be recorded at the time of development.
- [KCC 9.04.140 Administration](#): Authorizes the County to make inspections and take actions required to enforce the provisions of KCC 9.04 and the Surface Water Design Manual. It also provides for right of entry and ingress/egress as needed to monitor and enforce the requirements of KCC 9.04 and the Surface Water Design Manual.
- [KCC 9.04.180 Enforcement](#): Authorizes the County to enforce the provisions of KCC 9.04 and the Surface Water Design Manual.
- [KCC Title 23 Code Compliance](#): Sets forth procedures for enforcing code compliance.

**S5.C.5.b.vi.**

*The program shall include a process of permits, plan review, inspections, and enforcement capability to meet the following standards for both private and public projects, using qualified personnel:*

- *Review all stormwater site plans submitted to the Permittee for proposed development involving land disturbing activity that meet the thresholds in S5.C.5.b.i., above.*
- *Inspect prior to clearing and construction, all permitted development sites that meet the thresholds in S5.C.5.b.i., and that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7.*
- *Inspect all permitted development sites involving land disturbing activity that meet the thresholds in S5.C.5.b.i. above, during construction to verify proper installation and maintenance of required erosion and sediment controls. Enforce as necessary based on the inspection.*
- *Inspect all development sites that meet the thresholds in S5.C.5.b.i., upon completion of construction and prior to final approval/occupancy to verify proper installation of permanent erosion controls and stormwater facilities/BMPs. Enforce as necessary based on the inspection. A maintenance plan shall be developed for permanent stormwater facilities/BMPs and responsibility for maintenance shall be assigned.*
- *Compliance with the above inspection requirements shall be determined by the presence of an established inspection program designed to inspect all sites involving land disturbing activity that meet the thresholds in S5.C.5.b.i. Compliance during this permit term shall be determined by achieving at least 80% of scheduled inspections. The inspections may be combined with other inspections provided they are performed using qualified personnel.*
- *The program shall include a procedure for keeping records of inspections and enforcement actions by staff, including inspection reports, warning letters, notices of violations, and other enforcement records. Records of maintenance inspections and maintenance activities shall be maintained.*
- *The program shall include an enforcement strategy to respond to issues of non-compliance.*

King County has in place a process of permits, plan reviews, inspections, and enforcement capabilities to meet the above standards for both private and public projects. Except for Right of Way (ROW) Construction Permits, which are administered by the Real Estate Services Section of the Department of Executive Services, DPER is the permitting agency for unincorporated King County. DPER receives applications for development permits and reviews all stormwater site plans submitted. This review process includes assessing the sensitivity of a site for elements such as erosion hazard critical areas, proximity to steep slopes, creeks or wetlands, as well as the proposed temporary erosion and sediment control (TESC) elements of the project.

Following issuance of a permit, DPER inspects all development sites. Pre-clearing and construction inspections are performed for all designated highly sensitive sites, which capture those sites with a high potential for sediment transport. These sites are also

inspected during construction for the required erosion and sediment controls outlined and reviewed in the permit application. All sites with stormwater facilities and flow control BMPs are inspected to ensure they are properly installed. Because DPER frequently combines erosion and sediment control inspections with other inspections, all the inspectors and plan reviewers are required to have Certified Erosion and Sediment Control Lead (CESCL) certification.

Larger projects are required to post financial guarantees to ensure that sites with improperly constructed facilities can have corrections made. Violations of erosion and sediment control requirements are enforced. Larger projects are required to put up financial guarantees, the first \$7,500 of which is cash. If a violation or stop work order is issued due to TESC problems, DPER can order out its own contractors to fix the TESC problem using the cash portion of the restoration bond. Flow charts of some typical DPER permit processes are available in Appendix 1 to demonstrate how inspections are integrated into the process.

Inspections are tracked with different methods by various DPER sections using a time tracking/billing system to record site visits and inspections; completion of paper log sheets in the field; and electronic records in a software program called Accela Automation. Records of all inspections and enforcements are maintained in a central database and most are available through the DPER website. Each DPER inspection file has records of inspections and enforcement. In addition, beginning in July, 2012, detailed records for all inspections and enforcement actions are maintained in Automation. Older inspection and enforcement records that were stored in the previous DPER permit processing software (Permits Plus) have been converted into Automation as well. The County is assessing if the DPER website could also be expanded to consolidate all Ecology-required permit records under one Municipal Permit screen.

**S5.C.5.b.vii.**

*The Permittee shall make available the “Notice of Intent for Construction Activity” and/or copies of the “Notice of Intent for Industrial Activity” to representatives of proposed new development and redevelopment. Permittees will continue to enforce local ordinances controlling runoff from sites that are covered by other stormwater permits issued by Ecology.*

Copies of “Notice of Intent for Construction Activity” and the “Notice of Intent for Industrial Activity” are available at the DPER’s Permit Counter.

**S5.C.5.b.viii.**

*Each permittee shall ensure that all staff whose primary job duties are implementing the program to Control Stormwater Runoff from New Development, Redevelopment, and Construction Sites, including permitting, plan review, construction site inspections, and enforcement, are trained to conduct these activities. As determined necessary by the Permittee, follow-up training shall be provided to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.*

King County has a training program series on the SWDM and coordinates with all departments to ensure that the requisite staff receive this training. Training for DPER staff was conducted in February 2009 for all review and inspection staff on additions and revisions in the 2009 SWDM adopted in January 2009. In addition, relevant DPER staff are required to maintain Certified Erosion Control Lead certification. The County continues to review King County agencies’ programs and updates the list of staff requiring SWDM and

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CESCL training as needed under this section. Training records of DPER staff are tracked on a web based application call the Training Management System. The County will address the training requirements as new staff and positions are identified, whether they are current employees or new hires. Ecology tracks CESCL certifications on its Web site at the following URL: (<http://apps.ecy.wa.gov/wqcescl/>). King County conducts its own Ecology approved CESCL training and certification course. This has enabled the County to train staff identified as needing CESCL training in a timely and efficient manner.

## **S5.C.6. Structural Stormwater Controls**

### **S5.C.6.a.**

*The SWMP shall include a program to construct structural stormwater controls to prevent or reduce impacts to waters of the state caused by discharges from the MS4. Impacts that shall be addressed include disturbances to watershed hydrology and stormwater pollutant discharges. The program shall consider impacts caused by stormwater discharges from areas of existing development, including runoff from highways, streets and roads owned or operated by the Permittee, and areas of new development, where impacts are anticipated as development proceeds. The program shall address impacts that are not adequately controlled by the other required actions of the SWMP, and shall provide proposed projects and an implementation schedule.*

*The program shall consider the construction of projects such as: regional flow control facilities; water quality treatment facilities; facilities to trap and collect contaminated particulates; retrofitting of existing stormwater facilities; and rights-of-way, or other property acquisition to provide additional water quality and flow control benefits. Permittees should also consider other means to address impacts, such as reduction or prevention of hydrologic changes through the use of on-site (infiltration and dispersion) stormwater management BMPs and site design techniques, riparian habitat acquisition, or restoration of forest cover and riparian buffers, for compliance with this requirement. Permittees may not use in-stream culvert replacement or channel restoration projects for compliance with this requirement.*

### **S5.C.6.b.**

*Minimum Performance Measures:*

#### **S5.C.6.b.i.**

*Each Permittee shall implement a Structural Stormwater Control program designed to control stormwater impacts that are not adequately controlled by other required actions of the SWMP. Permittees shall provide a list of planned individual projects that are scheduled for implementation during the term of this permit and describe how the selected projects comply with AKART and MEP requirements. Updates and revisions to the list will be provided in the annual report and will address any concerns identified by Ecology during its review of the Structural Stormwater Control program.*

*The Structural Stormwater Control program may also include a program designed to implement small scale projects that are not planned in advance.*

The County's structural stormwater control program is a two-tiered program of capital projects operated primarily out of King County WLRD that also includes projects implemented by other County agencies that meet the intent of the program. The first tier consists of projects whose primary purpose is controlling stormwater runoff from developed land to address its quantity and quality impacts to waters of the state that are not adequately addressed by other required actions in the SWMP. Included are projects specifically aimed at (1) reducing stormwater quantity and/or quality impacts caused by existing developed land, and/or (2) preventing such impacts anticipated to be caused by future land development that are not otherwise addressed by development regulations. The second tier consists of projects whose primary purpose is not controlling stormwater runoff to reduce or prevent stormwater impacts to waters of the state, but nonetheless result in a stormwater

impact reduction/prevention benefit to these waters. Details of King County's structural stormwater control program are located in Appendix 2.

**S5.C.6.b.ii.**

*Each Permittee shall include a description of the Structural Stormwater Control Program in the written documentation of their SWMP. The description of the Structural Stormwater Control Program shall include the following:*

- *The goals that the Structural Stormwater Control Program are intended to achieve.*
- *The planning process used to develop the Structural Stormwater Control Program, including: the geographic scale of the planning process, the issues and regulations addressed, the steps in the planning process, the types of characterization information considered, the amount budgeted for implementation, and the public involvement process.*
- *A description of the prioritization process, procedures and criteria used to select the Structural Stormwater Control projects*

Goals of the Structural Stormwater Control Program

The overall goal of the County's structural stormwater control program as directed by this permit requirement is to (1) reduce stormwater quantity and quality impacts to waters of the state caused by existing developed land, and (2) prevent such impacts anticipated to be caused by future land development that are not adequately addressed through regulations or other required programmatic actions of this SWMP. Such impacts include, but are not limited to: increased runoff peaks, durations, and volumes; loss of groundwater recharge; increased pollutants in discharges; increased erosion and sedimentation; physical, chemical, and biological damage to aquatic habitat and biota; increased flooding and property damage; and increased risks to human health and safety. The overall goal is intended to be achieved incrementally over time through implementation of the program's capital projects each year. See Appendix 2 for a description of the projects planned through the end of this permit term.

Planning Process for the Structural Stormwater Controls Program

Currently, several planning processes are used to identify structural stormwater control projects. These include, but are not limited to: basin plans; basin reconnaissance reports; stormwater compliance plans; salmon conservation plans; lake management plans; TMDL implementation plans; basin retrofit analyses; land use analyses; GIS analyses; engineering studies; feasibility studies; and six-year CIP plans. Over the years, these planning processes are one way that projects are identified and prioritized. The other way is through opportunities and emergency situations that arise following severe storms. Opportunities may include the availability of external funding for a specific project or project type (e.g., federal or state grant funding), or the availability of a specific piece of land for acquisition. Urgent situations, often posed by flooding or erosion, typically involve a significant risk of property damage or threat to public safety, or may involve a legal obligation.

As described in Appendix 2, other types of structural stormwater control projects are not planned in advance but instead are identified as the result of system failures and are implemented on a year-by-year demand-driven basis.

The County has and will continue to participate in basin and sub-basin scale planning to identify stormwater control projects to mitigate the stormwater impacts of past, present, and future development. During this permit term, the County has been or will be involved in several basin planning efforts, including the Des Moines Creek Basin Plan (implementation phase), the Miller and Walker Creek Basin Plan, the Salmon Creek Basin Plan, the King County Stormwater Capital Needs Assessment, and the Juanita Creek Basin Retrofit Analysis Project.

In 2010, the County began a program to address Special Condition S4F for O.O. Denny Creek. Part of this program included proactively identifying, assessing the feasibility, and prioritizing projects that address erosive outfalls pursuant to Ecology's direction stated in their letter to King County dated July 22, 2008 (see Appendix 2 of SWMP). In 2010 through the beginning of 2012, the Outfall Reconnaissance Inventory program investigated approximately 1,900 outfalls. As part of that program, the outfalls were assessed for potential erosivity and 24 were found to have features that fit this category. An inventory of these potentially erosive outfalls has been developed and planning level costs for capital projects necessary to correct erosion at each outfall were estimated. Adding these costs together, the total planning level cost to stabilize all 24 outfalls was estimated to be about \$1.3 million. This cost together with planning level costs to address other stormwater capital needs formed the basis for the County's 2013/14 budget request. In 2013, the County will be performing more rigorous engineering assessments of these outfalls to determine definitive project costs and benefits for purposes of prioritizing these projects for future capital funding. These assessments will evaluate solution alternatives, costs, feasibility, and priority for inclusion on the list of planned structural stormwater control program projects. As appropriate, these assessments will consider different approaches to address erosive outfalls such as use of tightlines (pipes down steep slopes), upper basin flow control facilities, and/or low impact development retrofits that more closely mimic the predeveloped hydrologic condition.

**S5.C.6.b.iii.**

*For planned individual projects, and programs of small projects, provide the following information:*

- *The estimated pollutant load reduction that will result from each project designed to provide stormwater treatment.*
- *The expected outcome of each project designed to provide flow control.*
- *Any other expected environmental benefits.*
- *If planned, monitoring or evaluation of the project and monitoring/evaluation results.*

The current list of projects planned for this permit term and their expected outcomes is provided in Appendix 2.

**S5.C.6.b.iv.**

*Information about the Structural Stormwater Control Program shall be updated with each annual report.*

Information about King County's Structural Stormwater Control Program has been updated and is available in the County's Annual Report for 2012, submitted in 2013.

## **S5.C.7. Source Control Program for Existing Development**

### **S5.C.7.a.**

*The SWMP shall include a program to reduce pollutants in runoff from areas that discharge to municipal separate storm sewers owned or operated by the Permittee. The program shall include the following:*

#### **S5.C.7.a.i.**

*Application of operational and structural source control BMPs, and, if necessary, treatment BMPs to pollution generating sources associated with existing land uses and activities.*

#### **S5.C.7.a.ii.**

*Inspections of pollutant generating sources at commercial, industrial and multifamily properties to enforce implementation of required BMPs to control pollution discharging into municipal separate storm sewers owned or operated by the Permittee.*

#### **S5.C.7.a.iii.**

*Application and enforcement of local ordinances at applicable sites, including sites that are covered by other stormwater permits issued by Ecology. Permittees that are in compliance with the terms of this permit will not be held liable by Ecology for water quality standard violations or receiving water impacts caused by industries and other Permittees covered, or which should be covered under an NPDES permit issued by Ecology.*

#### **S5.C.7.a.iv.**

*Reduction of pollutants associated with the application of pesticides, herbicides, and fertilizer discharging into municipal separate storm sewers owned or operated by the Permittee.*

### **S5.C.7.b.**

*Minimum Performance Measures for Source Control Program:*

#### **S5.C.7.b.i.**

*Enforce an ordinance, or other enforceable documents, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities (See Appendix 8 to identify pollutant generating sources).*

*The requirements of this subsection are met by using the source control BMPs in Volume IV of the 2005 Stormwater Management Manual for Western Washington, or a functionally equivalent manual approved by Ecology.*

*Ecology review and approval of the ordinance, or other enforceable documents, and source control program is required.*

*Operational source control BMPs shall be required for all pollutant generating sources. Structural source control BMPs shall be required for pollutant generating sources if operational source control BMPs do not prevent illicit discharges or violations of surface water, ground water, or sediment management standards because of inadequate stormwater controls. Implementation of source control requirements may be done through education and technical*

*assistance programs, provided that formal enforcement authority is available to the Permittee and is used as determined necessary by the Permittee, in accordance with S5.C.7.b.iv., below.*

The County adopted the SPPM in 1995 and updated it in 2005 and 2009. The SPPM identifies potentially polluting activities at commercial and industrial sites and the operational, structural, and/or treatment BMPs required to prevent pollutants from entering surface, storm, and groundwater. The 2009 SPPM is posted at the following URL: <http://www.kingcounty.gov/environment/waterandland/stormwater/documents/pollution-prevention-manual.aspx>.

KCC 9.12 and Title 23 provide enforcement capability, though the County's normal policy is to visit commercial and industrial sites, and provide technical assistance and follow-up correction letters identifying both any source control requirements not adequately met and any additional BMPs that are needed. Additionally, commercial sites are denied a discount on the annual Surface Water Management Fee if source control BMPs are not implemented and if the onsite stormwater system is not maintained.

**S5.C.7.b.ii.**

*Implement a program to identify sites which are potentially pollution generating. The program shall include:*

- *Inventory or listing of the land uses/businesses using the categories of land uses and businesses in Appendix 8. The Permittee shall periodically update the inventory as new businesses are identified and business ownership/management and responsibilities change.*

King County Stormwater Services developed an inventory of the land uses/businesses using the categories found in Appendix 8 of the 2009 Permit for use in 2013. In cooperation with other Phase I jurisdictions, King County has developed a long-term approach which will combine databases, screen business lists, and conduct verifications to improve the current inventory list to meet this permit requirement. This process is detailed in Appendix 7.

The inventory will be also updated as new sites are developed and approved through DPER and forwarded to SWS. Updates will also occur during the annual maintenance inspection process or bi-annual self-certification process. If a new business ownership or type of business is noted or reported, the inventory will be updated to reflect the change.

Properties owned by the County that have the potential to produce pollutants are included in this existing inventory. Custodial agencies have reviewed the current list of properties contained within the current business inventory and compared it to their property lists within unincorporated King County to ensure King County properties that have potential pollution generating activities are included in the inventory. This same process will be conducted for King County properties that are located outside of unincorporated King County. As additional properties are identified they will be added to the inventory.

The Airport occupies a unique position in that it is a property manager with businesses that are tenants. To aid the inventory process, the Airport provided a list of the tenant or business activities at the Airport and the potential pollution generation associated with each. The Airport also provided the applicable operational and structural BMPs planned or

implemented for both Airport and tenant activities. These items were provided to the SWS and kept on file.

- *Complaint-based response to identify other pollutant generating sources, such as mobile or home-based businesses.*

SWS inspection staff currently respond to all water quality complaints from citizens and all County agencies as well as those referred to SWS by outside agencies. If the complaint involves a mobile or home-based business that works in unincorporated King County, the business will be added to the business inventory. As part of the complaint resolution, a water quality audit discussing appropriate source control BMPs will take place and a follow up letter will be prepared to facilitate compliance. Additional inspections or enforcement actions will follow if necessary.

**S5.C.7.b.iii**

*Implement an audit/inspection program for sites identified pursuant to S5.C.7.b.ii. above.*

- *All identified sites with a business address shall be provided, by mail, telephone, or in person, information about activities that may generate pollutants and the source control requirements applicable to those activities. This information may be provided all at one time or spread out over the last three years of the permit term to allow for some tailoring and distribution of the information during site inspections. Businesses may self-certify compliance with the source control requirements at the discretion of the Permittee. The Permittee shall inspect 20% of these sites annually to assure BMP effectiveness and compliance with source control requirements. The Permittee may select which sites to inspect each year and is not required to inspect 100% of sites over a 5-year period. Sites may be prioritized for inspection based on their land use category, potential for pollution generation, proximity to receiving waters, or to address an identified pollution problem within a specific geographic area or sub-basin. The Permittee may count follow up compliance inspections at the same site toward the 20% inspection rate.*

The County has had a source control program since 1995 and its current source control program is based on the activities and BMPs cited in the 2009 SPPM. The program generally has been a complaint-based program. A well-defined inventory of potentially pollutant-generating businesses/sites has been developed (see S5.C.7.b.ii) and the County has defined what constitutes 20% of the inventory. Sites have been prioritized by business type and the potential for business activities to generate and discharge hazardous, dangerous, and toxic substances to surface and stormwater.

King County has budgeted for a mass mailing of a brochure directing businesses to County source control websites. This will not include businesses that have had site visits and been mailed BMP documentation as part of our normal inspection program.

Annexations are planned within King County, in the urban growth areas, over the next few years. This creates uncertainty about the number of businesses that will remain in unincorporated King County. The number of sites under this program will be in constant flux, requiring the 20% inspection goal be updated annually as cited in Appendix 7.

SWS is working with the Airport to conduct site inspections for each tenant that has been identified as meeting applicable source control requirements and will ensure the implementation status of source control BMPs.

- *Each Permittee shall inspect 100% of sites identified through legitimate complaints*

King County currently investigates all water quality complaints received in SWS. Once investigated, these complaints are either referred to another agency when appropriate; completed with a resolution or because no problem identified; receive an on-site source control audit visit; or, directed into the enforcement program.

**S5.C.7.b.iv.**

*Each Permittee shall implement a progressive enforcement policy to require sites to come into compliance with stormwater requirements within a reasonable time period as specified below:*

- *If the Permittee determines, through inspections or otherwise, that a site has failed to adequately implement required BMPs, the Permittee shall take appropriate follow-up action(s) which may include: phone calls, reminder letters or follow-up inspections.*
- *When a Permittee determines that a facility has failed to adequately implement BMPs after a follow-up inspection, the Permittee shall take further enforcement action as established through authority in its municipal code and ordinances, or through the judicial system.*
- *Each Permittee shall maintain records, including documentation of each site visit, inspection reports, warning letters, notices of violations, and other enforcement records, demonstrating an effort to bring facilities into compliance. Each Permittee shall also maintain records of sites that are not inspected because the property owner denies entry.*
- *A Permittee shall contact Ecology immediately upon discovering a source control violation that presents a severe threat to human health or the environment. A Permittee may refer non-emergency violations of local ordinances to Ecology, provided, the Permittee also makes a documented effort of progressive enforcement. At a minimum, a Permittee's enforcement effort shall include documentation of inspections and warning letters or notices of violation.*

SWS has had a progressive enforcement program in place since 1995. The County uses both King County Code 9.12 - Water Quality Code and Title 23 - Enforcement:

[Title 9 -](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

[http://www.kingcounty.gov/council/legislation/kc\\_code/12 Title 9.aspx](http://www.kingcounty.gov/council/legislation/kc_code/12_Title_9.aspx)

[Title 23 -](http://www.kingcounty.gov/council/legislation/kc_code/32_Title_23.aspx)

[http://www.kingcounty.gov/council/legislation/kc\\_code/32 Title 23.aspx](http://www.kingcounty.gov/council/legislation/kc_code/32_Title_23.aspx)

Both have legally defined processes and procedures as adopted by the King County Council. All actions are documented in the Water Quality Compliance database. The enforcement program has been updated to incorporate changes made in King County Code Title 23 to simplify the code enforcement process. King County makes every effort to bring

facilities into compliance using site audits and technical assistance but does bring non-compliant businesses into the progressive enforcement program where needed.

**S5.C.7.b.v.**

*Each Permittee shall ensure that all staff whose primary job duties are implementing the source control program are trained to conduct these activities. The training shall cover the legal authority for source control (adopted codes, ordinances, rules, etc.), source control BMPs and their proper application, inspection protocols, and enforcement procedures. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.*

King County has an ongoing training program for employees conducting source control work. SWS is the primary agency implementing the source control program and has a training program that trains staff and regularly updates staff training as needed. SWS works with custodial agencies within King County and identifies agencies that want to conduct self audits. WLRD coordinates with these agencies to ensure that the required staff receives this training. King County continues to update its list of staff requiring training under this section and addresses their training as they are identified whether current employees or new hires.

SWS continuously reviews County programs to refine the tracking and identification of activities and staff whose source control job functions could impact stormwater quality. These efforts are intended to coordinate and centralize the training program tracking and ensure that the requirements of this section of the one-year permit are met.

## **S5.C.8. Illicit Connections and Illicit Discharges Detection and Elimination**

### **S5.C.8.a.**

*The SWMP shall include an ongoing program to detect, remove and prevent illicit connections and illicit discharges, including spills, into the municipal separate storm sewers owned or operated by the Permittee.*

### **S5.C.8.b.**

*Minimum Performance Measures:*

#### **S5.C.8.b.i.**

*Each Permittee shall continue implementing an on-going program to prevent, identify and respond to illicit connections and illicit discharges. The program shall include procedures for reporting and correcting or removing illicit connections, spills and other illicit discharges when they are suspected or identified. Each permittee shall implement procedures for addressing pollutants entering the MS4 from an interconnected, adjoining MS4.*

*Illicit connections and illicit discharges shall be identified through field screening, inspections, complaints/reports, construction inspections, maintenance inspections, source control inspections, and/or monitoring information, as appropriate.*

The County has a number of programs in place to address illicit connections and discharges. These programs were created to address issues that occur on King County properties and to address regional issues.

Reports are received in a number of ways, including citizen requests obtained through the Roads 24-hour hotline (206-296-8100 or 800-KCROADS); citizen calls to the SWS Drainage and Water Quality hotline (206-296-1900) or to the Illegal Dumping Task Force (IDTF) hotline (206-296-SITE or 866-431-7483) or Web site (<http://your.kingcounty.gov/solidwaste/cleanup/report-dumping.asp>); from other regional jurisdictions, state agencies; or discoveries by County staff. When the County receives reports of dumped or spilled materials outside of its jurisdiction, the appropriate agency or municipality is notified of the situation.

Custodial agencies respond in several ways to illegally dumped materials or spilled materials on their properties such as the road ROW, parks, pumps stations, or park and rides. Illegally dumped solid waste is usually remedied by the custodial agency responding and removing the material, thus preventing potential illicit discharges. Dumped material suspected of being hazardous waste (e.g., methamphetamine laboratory waste), large-scale spills, unidentifiable dumped materials, or other potentially dangerous conditions require responses either from a spill response contractor, Ecology's Northwest Regional Office (NWRO) Spill Response Unit, or from other appropriate parties.

Any illicit connections, discharges, or spills discovered during maintenance or as a result of investigations or inspections of the stormwater system are reported to SWS, and an investigation request is completed with the relevant information entered into the SWS Complaint Tracker database. The investigation request is assigned to a Water Quality Engineer, who traces the source to ensure that the connection is removed or plugged or BMPs implemented to eliminate the discharge.

Spills or illicit discharges to receiving waters or to the MS4 are reported to SWS or other custodial agencies for investigation and are either reported to the State or other appropriate agencies or resolved by the County. Spills or discharges of a material or size requiring a response beyond the County's capacity to respond are addressed by a spill response contractor, Ecology's NWRO Spill Response Unit, or by other appropriate parties.

PHSKC inspects a variety of business and commercial properties and residential properties served by onsite sewage systems. PHSKC staff also investigate onsite stormwater systems for illegal discharges. A program is being developed which will ensure these reports are forwarded to the appropriate agencies and the PHSKC staff are trained to recognize existing or potential illicit connections or illicit discharges. When the discharge is under the direct regulatory oversight of PHSKC, staff will take appropriate measures to assure the correction of the connection or discharge. When the connection or discharge is not under the direct regulatory oversight of PHSKC, the connection or discharge will be reported to the appropriate authority.

In 2013, King County will continue to work with its neighboring jurisdictions on coordinating management of illicit connections and spills entering or leaving the County's MS4. As an example of this type of work, in previous years King County provided IC/IDDE training for Phase II Municipal Permittee staff from neighboring jurisdictions. An IC/IDDE committee of the ROAD MAP group meets as needed to update or review shared jurisdictional illicit connection and spill response policies and procedures.

**S5.C.8.b.ii.**

*Each Permittee shall enforce existing ordinances or other regulatory mechanisms to effectively prohibit non-stormwater, illicit discharges, including spills, into the Permittee's municipal separate storm sewer system.*

1. *The ordinance or other regulatory mechanism, does not need to prohibit the following categories of non-stormwater discharges:*
  - *Diverted stream flows;*
  - *Rising ground waters;*
  - *Uncontaminated ground water infiltration (as defined at 40 CFR 35.2005(20));*
  - *Uncontaminated pumped ground water;*
  - *Foundation drains;*
  - *Air conditioning condensation;*
  - *Irrigation water from agricultural sources that is commingled with urban stormwater;*
  - *Springs;*
  - *Water from crawl space pumps;*

- Footing drains; and
  - Flows from riparian habitats and wetlands.
2. The ordinance or other regulatory mechanism, shall prohibit the following categories of non-stormwater discharges unless the stated conditions are met:
    - Discharges from potable water sources, including water line flushing, hyperchlorinated water line flushing, fire hydrant system flushing, and pipeline hydrostatic test water. Planned discharges shall be de-chlorinated to a concentration of 0.1 ppm or less, pH-adjusted if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4.
    - Discharges from lawn watering and other irrigation runoff. These discharges shall be minimized through, at a minimum, public education activities (see S5.C.10) and water conservation efforts.
    - Dechlorinated swimming pool discharges. The discharges shall be dechlorinated to a concentration of 0.1 ppm or less, pH-adjusted and reoxygenated if necessary, and volumetrically and velocity controlled to prevent resuspension of sediments in the MS4. Swimming pool cleaning wastewater and filter backwash shall not be discharged to the MS4.
    - Street and sidewalk wash water, water used to control dust, and routine external building washdown that does not use detergents. The Permittee shall reduce these discharges through, at a minimum, public education activities (see S5.C.10.) and/or water conservation efforts. To avoid washing pollutants into the MS4, Permittees shall minimize the amount of street wash and dust control water used. At active construction sites, street sweeping shall be performed prior to washing the street.
    - Other non-stormwater discharges. Other non-stormwater discharges shall be in compliance with the requirements of a stormwater pollution prevention plan reviewed by the Permittee which addresses such discharges.
  3. The Permittee's SWMP shall, at a minimum, address each category in (2) above in accordance with the conditions stated therein.
  4. The SWMP shall further address any category of discharges in (1) or (2) above if the discharges are identified as significant sources of pollutants to waters of the State.
  5. Non-stormwater discharges covered by another NPDES permit and discharges from emergency fire fighting activities are allowed in the MS4 in accordance with S2 Authorized Discharges.

Existing King County Code 9.12 (Water Quality) prohibits non-stormwater discharges including hyperchlorinated line flushing unless dechlorinated, swimming pool discharges, and street and sidewalk wash water. PHSKC regulates public swimming pools and complies with adopted storm water standards outlined in the SPPM for dechlorination, pH adjusting, and velocity controls. Discharges from irrigation or lawn watering are addressed as part of

the Natural Yard Care educational program. Other non-stormwater discharges are also prohibited by [KCC 9.12](#).

**S5.C.8.b.iii.**

*Each Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.*

All King County field personnel responsible for responding to illicit discharges and illicit connections are trained when hired. As the primary responders, Roads and Transit have developed formalized hazardous waste and spill response training for personnel responding to illegally dumped or spilled materials. This training is adapted for use by other County agencies and other local jurisdictions. The training includes identifying, reporting, containing, handling, transporting, and disposing of such materials that may be commonly dumped or spilled within the road right-of-way. The County continues to review its programs and identify additional personnel that need this training and to assess the need for follow-up training as regulations, procedures, or personnel change. Additionally, the County is working to identify or create additional trainings to ensure that field staff understand the regulatory and scientific environment in which the illicit discharge and connection identification program exists. For ease in tracking permit-related training, the County is exploring ways it could use its central employee database.

**S5.C.8.b.iv.**

*Implement an ongoing training program for all municipal field staff, which, as part of their normal job responsibilities might come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer system, shall be trained on the identification of an illicit discharge or connection and on the proper procedures for reporting and responding to the illicit discharge or connection. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.*

Each King County agency with field personnel subject to this requirement is responsible for training those employees to identify an illicit discharge or connection and to properly report and respond. The County continues to review its programs and identify additional personnel that need this training and to assess the need for follow-up training as regulations, procedures, or personnel change. Additionally, the County is working to identify or create additional trainings to ensure that field personnel understand the regulatory and scientific environment in which the illicit discharge and connection identification program exists. For ease in tracking permit-related training, the County is exploring ways it could use its central employee database.

**S5.C.8.b.v.**

*Each Permittee shall provide a publicly-listed, water quality citizen complaints/reports telephone number. Complaints shall be responded to in accordance with S5.C.8.b.vii. and viii., below.*

Citizen reports are received by the County in a number of ways. These include the Roads 24-hour hotline (206-296-8100 or 800-KCROADS); the SWS Water Quality hotline (206-

296-1900); and the Illegal Dumping Task Force (IDTF) hotline (206-296-SITE or 866-431-7483) or Web site (<http://your.kingcounty.gov/solidwaste/cleanup/report-dumping.asp> ).

**S5.C.8.b.vi.**

*Each Permittee shall conduct on-going screening to detect illicit connections. The program shall include field screening and source tracing; and may also include source control inspections and complaint response. To comply with the requirement the Permittee may use the methods identified in Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, October 2004; or field screening methods approved by Ecology in a Stormwater Management Program under a prior Phase I municipal stormwater NPDES permit, provided the approved methods include field screening and source tracing.*

King County has ongoing programs which screen for illicit connections to its MS4. These programs are implemented by the custodial agencies and by SWS in unincorporated King County. Any illicit connections found by the custodial agencies during maintenance programs or in response to specific complaints from citizens or County staff are forwarded to the SWS section. SWS staff also report to the complaint program any illicit connections found during investigations of citizen complaints; annual inspections of drainage systems and other field work. The complaint response program is comparable to sections of the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, October 2004. This manual also contains guidance on programs similar to those found elsewhere in the SWMP, including the Outfall Reconnaissance Inventory (ORI) described below; citizen complaint response found in S5.C.8.b.v; and, the Source Control Program addressed in S5.C.7.

*(2) Each County covered under this permit shall prioritize outfalls and conveyances in urban/higher density rural sub-basins for screening and shall complete field screening for at least 12% of the conveyance systems in these areas.*

King County implemented an ORI program in 2010, developing screening and sampling protocols appropriate for the King County stormwater system. The ORI program uses a two-tiered approach to assess potential water pollution from suspected outfalls. The first tier is conducted by looking for signs of a potential illicit discharge or connection to the outfall such as foul odors, soap suds or discolored water. If a suspect discharge, or evidence of discharge, is identified, a follow-up, or tier two, inspection is conducted. This inspection involves taking water quality samples to determine if contaminants are present in the discharge like bacteria, fertilizers, and oil. Investigators can then conduct a source tracing process to locate and eliminate the illicit connection or discharge if tests are positive for contaminants. A map that identifies urban/higher density rural sub-basins is available for review as Appendix 5 of the SWMP.

**S5.C.8.b.vii.**

*Response to Illicit Connections*

- *Investigation: Upon discovery or upon receiving a report of a suspected illicit connection, Permittees shall initiate an investigation within 21 days, to determine the source and nature of the connection, and the responsible party for the connection.*

- *Termination: Upon confirmation of the illicit nature of a storm drain connection, Permittees shall use their enforcement authority in a documented effort to eliminate the illicit connection within 6 months. All illicit connections to the MS4 shall be eliminated.*
- *Permittees shall contact Ecology immediately upon discovering an illicit connection that presents a severe threat to human health or the environment. Permittees may refer illicit connection violations to Ecology provided that the Permittee also makes a good faith effort of progressive enforcement. At a minimum, a Permittee's enforcement effort shall include documentation of inspections and warning letters and/or notices of violation.*

[KCC 9.12](#) requires that once an illicit connection is discovered and confirmed, SWS staff notify the responsible party of the requirement to eliminate the connection. If the connection is not removed, a formal notice and order, with penalties, is issued. If there is still no resolution, the County can remove the illicit connection and charge the property owner.

SWS inspection staff conduct initial investigations of suspected illicit connections within seven days of receipt per SWS complaint investigation protocols. Once confirmed, the SWS Water Quality Compliance Program administers enforcement action for removal of the illicit connection. Illicit connections are prioritized within the Water Quality Compliance Manual as a first-tier priority. This should ensure that an illicit connection will be eliminated within six months of discovery. Please see the draft progressive enforcement table in Appendix 8.

PHSKC may be called upon to investigate reported or suspected illicit connections or discharges from facilities that it permits or inspects. Within the resources available, staff will investigate within 21 days and if confirmed, take appropriate enforcement actions to eliminate the connection or discharge.

**S5.C.8.b.viii.**

*Each Permittee shall either participate in a regional emergency response program, or implement procedures to investigate and respond to spills and improper disposal into municipal separate storm sewers owned or operated by the Permittee. Permittees shall have a program to prioritize and investigate complaints/reports or monitoring information that indicates potential illicit discharges, including spills. Permittees shall immediately respond to problems/violations judged by the Permittee to be urgent, severe, or an emergency. Spills of oil or hazardous materials shall be reported to appropriate authorities.*

King County's custodial agencies have had spill response programs in place for many years. These agencies have spill response programs for their properties and the associated MS3s. Currently, the County is coordinating these programs and developing a central standard procedure for all County agencies. These programs prioritize and investigate complaints, reports, or monitoring information that indicate potential illicit discharges, including spills or illegal dumping. These agencies immediately send investigators to respond to ongoing problems or violations and emergency complaints. These programs include training in identification, reporting, containment, cleanup and disposal of spills and response materials. An example program has been included in Appendix 3 (WLRD Stormwater Emergency Response Protocols). The County works closely with Ecology's NWRO Spill Response Unit and with other local jurisdictions in reporting and responding to spills and improper disposal into the MS4. The County conducts cleanup and disposal of most spills that occur on the County's properties and have on-call contractors for more complex situations.

**S5.C.8.b.ix.**

*Each Permittee shall track and maintain records of the illicit discharge detection and elimination program, including documentation of inspections, complaint/spill response and other enforcement records.*

King County has five programs that track and maintain records of the IDDE program, including documentation of inspections, complaint/spill response, and other enforcement records. These programs are outlined below:

- 1) SWS maintains tracking programs, including a complaint tracker and water quality compliance tracker which track response, findings, and enforcement actions.
- 2) Roads tracks and maintains electronic and paper copies of IDDE records through the Roads Citizen Action Request system and various internal tracking forms maintained by the Emergency Response Unit.
- 3) The IDTF hotline system operated by Solid Waste, in coordination with Roads, records and tracks the citizen complaints reported through the hotline.
- 4) Transit maintains a hardcopy and electronic logs of fleet and facility related IDDE incidents and inspections at its Environmental Compliance Office.
- 5) PHSKC maintains a proprietary database designed for public health agencies that maintains records of inspections, complaints, responses and enforcement actions.

Staff time and resources spent implementing these programs are tracked electronically through the County's Account Resource Management System. The County is implementing improvements in inter-department coordination related to this program to establish a centralized tracking program. As appropriate, spills and other select incidents are reported to Ecology's Environmental Response Tracking System (ERTS) database.

## **S5.C.9. Operation and Maintenance Program**

### **S5.C.9.a.**

*The SWMP shall include a program to regulate maintenance activities and to conduct maintenance activities by the Permittee that prevent or reduce stormwater impacts. The program shall include:*

#### **S5.C.9.a.i.**

*Maintenance standards and programs for proper and timely maintenance of public and private stormwater facilities.*

#### **S5.C.9.a.ii.**

*Practices for operating and maintaining Permittee's streets, roads, and highways to reduce stormwater impacts.*

#### **S5.C.9.a.iii.**

*Policies and procedures to reduce pollutants associated with the application of pesticides, herbicides, and fertilizer by the Permittee's agencies or departments.*

#### **S5.C.9.a.iv.**

*Practices for reducing stormwater impacts from heavy equipment maintenance or storage yards, and from material storage facilities owned or operated by the Permittee.*

#### **S5.C.9.a.v.**

*A training component.*

### **S5.C.9.b.**

*Minimum Performance Measures:*

#### **S5.C.9.b.i.**

*Maintenance Standards. Each Permittee shall implement maintenance standards that are as protective or more protective of facility function than those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington. For existing facilities which do not have maintenance standards, the Permittee shall develop a maintenance standard.*

The SWDM establishes and codifies maintenance standards for stormwater facilities in King County per King County Code 9.04. These standards were developed in the 1980s, and have been revised and updated in the SWDM as new facility features are developed, or standards change. King County custodial agencies maintain their stormwater treatment and flow control facilities per the SWDM. The SWDM is posted at the following URL:

<http://www.kingcounty.gov/environment/waterandland/stormwater/documents/surface-water-design-manual.aspx>

- 1. The purpose of the maintenance standard is to determine if maintenance is required. The maintenance standard is not a measure of the facility's required condition at all times between inspections. Exceeding the maintenance standard between inspections and/or maintenance is not a permit violation.*

2. *Unless there are circumstances beyond the Permittee's control, when an inspection identifies an exceedance of the maintenance standard, maintenance shall be performed:*

- *Within 1 year for typical maintenance of facilities, except catch basins.*
- *Within 6 months for catch basins, and*
- *Within 2 years for maintenance that requires capital construction of less than \$25,000.*

*Circumstances beyond the Permittee's control include denial or delay of access by property owners, denial or delay of necessary permit approvals, and unexpected reallocations of maintenance staff to perform emergency work. For each exceedance of the required timeframe, the Permittee shall document the circumstances and how they were beyond the Permittee's control.*

King County SWS inspects all County-owned and maintained flow control and water quality treatment facilities within unincorporated King County. There are over 1,200 such facilities county-wide and 1,162 of these are operated and maintained by SWS. SWS works in conjunction with the Roads' Special Operations Unit to complete identified facility maintenance on facilities within established timeframes.

Work authorizations are initially classified as "emergency," "high priority," "complaint," or "normal" maintenance to help set priorities and meet completion deadlines. Crew coordination meetings are held to facilitate timely completion of outstanding work authorizations. Work programs and staffing adjustments are made to meet established permit requirements for completing work.

We had 31 retrofit projects targeted for completion by the end of 2012 to meet the maintenance actions in our G20 letter. We received funding for this project from a grant from Ecology. We have completed 27 of the 31 projects. The status of the remaining projects is as follows:

- The 4 remaining projects were delayed due to a budget shortfall resulting from cost overruns on completed project. Funding has been obtained to complete the 4 projects in 2013.

Facilities that are owned and operated by other custodial agencies and located within unincorporated King County are inspected by SWS. SWS sends follow-up maintenance letters to the respective agencies to conduct required maintenance.

Programs to address inspection and maintenance schedules for County-owned facilities located outside of unincorporated King County currently reside within the custodial agencies. These facilities have been maintained by the custodial agencies; however, new efficiencies will be seen with a new central coordinated inspection, maintenance and tracking system for these facilities.

Catch basins owned or operated by the County are inspected and maintained by the applicable custodial agencies according to the timelines specified in S5.C.9.b.i(2).

**S5.C.9.b.ii.**

*Maintenance of stormwater facilities regulated by the Permittee*

1. *Each Permittee shall implement ordinances or other enforceable documents requiring maintenance of all permanent stormwater treatment and flow control facilities regulated by the Permittee (including catch basins), in accordance with maintenance standards established under S5.C.9.b.i., above.*

[KCC 9.04 and 9.12](#) adequately address this requirement for maintenance and inspection access.

2. *Each Permittee shall implement an inspection schedule for all known, permanent stormwater treatment and flow control facilities (other than catch basins) regulated by the Permittee to enforce compliance with adopted maintenance standards as needed based on the inspection. The inspection program is limited to facilities to which the Permittee can legally gain access, provided the Permittee shall seek access to the types of stormwater treatment and flow control facilities listed in the 2005 Stormwater Management Manual for Western Washington.*

[KCC 9.04](#) provides the County with the authority to inspect and require maintenance of privately owned and maintained flow control and water quality treatment facilities. The SWDM also establishes minimum maintenance standards, including the private facility inspection program implemented in the 1980s. Under this program, as a requirement for development, an applicant must record easements and covenants providing the County with right of entry and inspection of private drainage and stormwater control systems. Currently, the County alternates between County inspections and property owner self-certified inspections on a two-year cycle. The County performs random spot checks to verify self-certified maintenance.

In rural areas, the County increasingly relies on LID style flow control and treatment BMPs. King County has inventoried LID BMPs located on commercial and residential properties and began an inspection program for these BMPs in 2009. Other BMPs are implemented when triggered by inspections prompted by citizen complaints or water quality violations. King County has an inspection program for privately owned flow control BMPs to confirm the completion of the activities necessary to ensure the performance measures described in Appendix C of the SWDM.

3. *Each Permittee shall implement an on-going inspection schedule to annually inspect all stormwater treatment and flow control facilities (other than catch basins) regulated by the Permittee. The annual inspection requirement may be reduced based on maintenance records.*

*Reducing the inspection frequency to less frequently than annually shall be based on maintenance records of double the length of time of the proposed inspection frequency. In the absence of maintenance records, the Permittee may substitute written statements to document a specific less frequent inspection schedule. Written statements shall be based on actual inspection and maintenance experience and shall be certified in accordance with G19 Certification and Signature.*

SWS has already developed and implemented a combination of County inspections and property owner self-certified inspections to ensure facilities are monitored annually. The County inspects these facilities every other year and requires self-certified inspection by the owner during alternate years. Additionally, the County uses historical inspection data and maintenance records dating back to 1980 to adjust inspection scheduling when needed.

4. *Each Permittee shall manage maintenance activities to inspect all new permanent stormwater treatment and flow control facilities, including catch basins, in new residential developments every 6 months during the period of heaviest construction to identify maintenance needs and enforce compliance with maintenance standards as needed.*

In 1992, SWS implemented a maintenance/defect (M/D) inspection program to ensure that developers maintain public improvements during a two-year post public facility construction period historically found to require more frequent maintenance. It is presumed that this is the period where most development occurs, particularly within subdivision developments. The M/D inspection program is conducted so that the facilities are in good working order when their ownership transfers to the County. The King County Department of Transportation administers a similar program to not only ensure developer maintenance during the two-year period but to also ensure performance and workmanship of public improvements covered by the M/D bond. During the two-year M/D period the drainage improvements are inspected quarterly while road improvements are inspected annually. Both Departments perform a final inspection prior to bond release and maintenance acceptance.

5. *Compliance with the inspection requirements of S5.C.9.b.ii.(2), (3), and (4), above, shall be determined by the presence of an established inspection program designed to inspect all sites, and achieving inspection of 80% of all sites.*

The programs described S5.C.9.b.ii.(2), (3), and (4), above currently meet this requirement.

6. *The Permittee shall require cleaning of catch basins regulated by the Permittee if they are found to be out of compliance with established maintenance standards in the course of inspections conducted at facilities under the requirements of S5.C.7. (Source Control Program), and S5.C.8. (Illicit Connections and Illicit Discharges Detection and Elimination), or if the catch basins are part of the treatment or flow control systems inspected under the requirements of S5.C.9.*

King County requires the cleaning of catch basins regulated by the County when they are found to be out of compliance with the maintenance standards in Appendix A of the SWDM. This applies to all catch basins found in the course of inspections conducted at facilities under the requirements of S5.C.7 (Source Control Program), and S5.C.8 (IC/IDDE), or if the catch basins are part of the treatment or flow control systems inspected under the requirements of S5.C.9.

**S5.C.9.b.iii.**

*Maintenance of stormwater facilities owned or operated by the Permittee*

1. *Each Permittee shall implement a program to annually inspect all permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee, and implement appropriate maintenance action in accordance with adopted*

*maintenance standards. The annual inspection requirement may be reduced based on inspection records.*

*Changing the inspection frequency to less frequently than annually shall be based on maintenance records of double the length of time of the proposed inspection frequency. In the absence of maintenance records, the Permittee may substitute written statements to document a specific less frequent inspection schedule. Written statements shall be based on actual inspection and maintenance experience and shall be certified in accordance with G19 Certification and Signature.*

In the 1980s, the County implemented inspection and maintenance programs for publicly owned and maintained flow control and water quality treatment facilities. The SWS Section currently manages the inspection program for flow control and water quality facilities throughout unincorporated King County. SWS also inspects facilities owned and operated by other custodial agencies. Starting with the 2007 Permit, the requirements for maintenance became applicable to all King County-owned and operated facilities located outside of unincorporated King County. An inspection and maintenance program for these facilities is currently being implemented in cooperation with the custodial agencies and the relevant jurisdictions. These facilities have been maintained by the custodial agencies but there has been no central coordinated inspection, maintenance, and tracking system for these facilities.

The County currently uses a “phased” inspection program for its facilities with a maximum inspection frequency of three years. Phased inspections were developed in the mid 1990s to maximize the frequency between inspections using historical data to determine when facilities need inspections. Phasing was implemented in response to the need to reduce costs so that other services could be funded. Since developing the inspection program in the early 1980s, the County has kept records of the maintenance needs and history of over 1,000 flow control and water quality treatment facilities in the inventory. The data show that for a facility that was not maintenance prone, the time between inspections could be lengthened to a maximum of three years with no loss of function.

The County also looked at what types of maintenance the facilities required to see if less frequent inspections were appropriate. It determined that non-function-critical work (such as ladder repairs, sign replacement, grout work, etc.) did not warrant annual inspections because the likelihood of a reoccurrence was minimal and would not affect the performance of the facility. However, if a facility was found to have sediment deposition, erosion, blockages, or other function-critical failures, the facility would be inspected again the following year (after maintenance or repair had occurred) to see if the condition was reoccurring. Likewise, once the County responds to an emergency callout to a facility and corrects the problem, the facility is inspected the next year to see if the condition reappeared.

- 2. Each Permittee shall implement a program to conduct spot checks of potentially damaged permanent treatment and flow control facilities (other than catch basins) after major storm events (24 hour storm event with a 10 year recurrence interval). If spot checks indicate widespread damage/maintenance needs, inspect all stormwater treatment and flow control facilities that may be affected. Conduct repairs or take appropriate maintenance action in accordance with maintenance standards established under S5.C.9.b.i., above, based on the results of the inspections.*

SWS inspects and maintains facilities serving residential subdivisions, certain regional facilities, and all other stormwater control and treatment facilities owned or operated by the County. SWS has a program that spot checks 40 - 60 facilities after major storm events. Local storms tend to vary in intensity around the County. The samples are typically weighted to areas that have been more heavily affected by storms based on rain gage data and consider historic data for areas or facilities that have experienced problems in the past. SWS reviews past storm events and identifies areas of consolidated complaints or facilities with emergency call-outs to better ensure that it is checking facilities that need closer attention. Other custodial agencies conduct spot checks of potentially damaged stormwater treatment and flow control facilities on their respective properties after major storm events.

3. *Compliance with the inspection requirements of S5.C.9.b.iii.(1), and (2) above, shall be determined by the presence of an established inspection program designed to inspect all sites. Compliance during this permit term shall be determined by achieving an annual rate of at least 95% of inspections.*

The SWS program currently meets the inspection requirements of S5.C.9.b.iii.(1), and (2).

**S5.C.9.b.iv.**

*Maintenance of Catch Basins Owned or Operated by the Permittee*

1. *Each Permittee shall implement a program to annually inspect catch basins and inlets owned or operated by the Permittee.*
  - *Inspections may be conducted on a "circuit basis" whereby a sampling of catch basins and inlets within each circuit is inspected to identify maintenance needs. Include in the sampling an inspection of the catch basin immediately upstream of any system outfall. Clean all catch basins within a given circuit for which the inspection indicates cleaning is needed to comply with maintenance standards established under S5.C.9.b.i., above.*
  - *As an alternative to inspecting catch basins on a "circuit basis," the Permittee may inspect all catch basins, and clean only catch basins where cleaning is needed to comply with maintenance standards.*

Each custodial agency within King County is responsible for the inspection and maintenance of their respective properties. The King County SWDM establishes the maintenance standard for catch basins. Most of the custodial agencies have a small number of catch basin (less than 500) in their facility inventory. These agencies inspect 100 percent of their catch basin inventory and provide maintenance for those that exceed the maintenance standard. These agencies include Solid Waste, Wastewater, Transit, Airport, Parks, FMD, and Rivers.

SWS and Roads carry the largest catch basin inventory of the custodial agencies and they each conduct a catch basin and inlet inspection program.

Roads has developed a circuit system for catch basins and inlets in the road right-of-way. The circuit system focuses on the inspection of a subset of catch basins in each grid or drainage circuit to determine where to focus maintenance activities. The program includes an inspection checklist and a field data collection system. Maintenance needs identified

through the inspections are communicated to Roads maintenance crews for completion according to the timelines established in S5.C.9.b.i.

2. *The annual catch basin inspection schedule may be changed as appropriate to meet the maintenance standards based on maintenance records of double the length of time of the proposed inspection frequency. In the absence of maintenance records for catch basins, the Permittee may substitute written statements to document a specific, less frequent inspection schedule. Written statements shall be based on actual inspection and maintenance experience and shall be certified in accordance with G19 Certification and Signature.*

Since developing its inspection program in the early 1980s, SWS has kept records of the maintenance needs of the catch basins in its inventory. The data shows that for a catch basin that was not maintenance prone, the time between inspections could be lengthened with no loss of function. SWS will continue developing this program in 2013.

In 2010, Roads developed and implemented an on-going process for tracking the frequency with which catch basins located within the road right-of-way required maintenance. Once records spanning a sufficient length of time have been collected, Roads will analyze the data to determine if inspection frequency may be reduced as allowed in the permit.

3. *The disposal of decant water shall be in accordance with the requirements in Appendix 6 – Street Waste Disposal.*

Roads operates four stormwater decant stations located throughout the County for the collection of liquid and solid waste generated from cleaning catch basins and sweeping streets. One of the stations is open to both private companies and government agencies. This station has a discharge permit from the County's Wastewater Treatment Division authorizing the discharge of decant water to the sanitary sewer. The solids are transferred to a soil recycling program run by Roads, where the solid waste fraction is screened out and disposed and the remaining soil fraction undergoes intrinsic bioremediation, is tested and reused.

Two of the stations are for municipal use only, and one is a joint facility shared with the Washington State Department of Transportation (WSDOT) and collect decant water in lined ponds. The water is pumped into a tanker and transported to one of the station connected to the sanitary sewer for disposal. The solids are transferred to the soil remediation program described above.

Transit operates one decant facility for use by its in-house fleet of vector trucks. Wastewater generated by this process is treated and disposed of to the sanitary sewer as required by industrial wastewater regulations. Collected solid material is disposed of as required by applicable requirements.

**S5.C.9.b.v.**

*Records of inspections and maintenance or repair activities conducted by the Permittee shall be maintained. Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.*

The County implemented its inspection and maintenance programs in the 1980s, at which time an in-house custom inspection database was developed. The updated version of this program maintains records of inspections, work authorizations, and completion dates. Reports using this database can be developed for multiple applications. Additionally, inspection files for all facilities contain hard copy records of all pertinent work information.

Roads is responsible for the maintenance and repair of much of King County's stormwater collection, conveyance, and treatment system in addition to preservation of the County's right-of-way. Roads uses several systems to track these activities and maintains both electronic and hardcopy records regarding these maintenance and repair activities.

Electronic record keeping is done using the County's maintenance management systems. These are updated as maintenance and repair activities are conducted. Hard copy tracking systems include Roads Maintenance Reports and Citizen Action Request forms. Information tracked by these systems includes but is not limited to, the type of maintenance or repair activity, date and location of the work, labor hours, and equipment.

Maintenance and repair costs are tracked throughout the year using the record keeping systems described above. Repair or maintenance projects requiring \$25,000 or more will be identified and records will be provided in the County's annual report to Ecology.

Other custodial agencies maintain separate records of inspections and maintenance or repair activities. Records of repair or maintenance requiring capital construction of \$25,000 or more will be provided in the County's annual report to Ecology.

**S5.C.9.b.vi.**

*Implement practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee.*

*Implementation of practices shall continue on an ongoing basis throughout the term of the permit. The following activities shall be addressed:*

- 1. Pipe cleaning*
- 2. Cleaning of culverts that convey stormwater in ditch systems*
- 3. Ditch maintenance*
- 4. Street cleaning*
- 5. Road repair and resurfacing, including pavement grinding*
- 6. Snow and ice control*
- 7. Utility installation*
- 8. Maintaining roadside areas, including vegetation management.*
- 9. Dust control*

10. Pavement striping maintenance

The County has several programs that establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the County and road maintenance activities conducted by the County.

In 2009, SWS produced a draft document which consolidated relevant sections of the numerous King County program documents. These sections establish practices to reduce stormwater impacts associated with operations and maintenance activities that relate to the permit conditions outlined in S5.C.9.b.vi and vii. This document is comprised of sections of the following: the Regional Road Maintenance ESA Program Guidelines, the draft King County Department of Transportation Performance Standards, the SWDM, the SPPM, and the King County Integrated Pest Management Program guidelines. This compilation document is referred to as the [Site Management Plan \(SiMPLa\)](#) and has been issued to all King County custodial agencies to be used as the minimum standard for operations and maintenance of property owned or maintained by King County. In 2012 an updated, revised and reformatted version of the SiMPLa was completed and distributed not only within King County but amongst other Phase I and II municipalities in the region for their use. In addition, a dedicated [SiMPLa website](#) was developed to allow for easy navigation and access to the document and its contents.

Several agencies have internal manuals and programs that are as or more protective of stormwater quality as the baseline requirements found in the SiMPLa and will be used by those agencies as equivalent programs. Select King County properties have been issued discharge permits under other NPDES programs and have SWPPPs. These SWPPPs will be used instead of the SiMPLa.

**S5.C.9.b.vii.**

*Each Permittee shall implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.*

*The policies and procedures shall address, but are not limited to:*

- 1. Application of fertilizer, pesticides, and herbicides, including the development of Nutrient management and Integrated Pest Management Plans;*
- 2. Sediment and erosion control;*
- 3. Landscape maintenance and vegetation disposal;*
- 4. Trash management; and*
- 5. Building exterior cleaning and maintenance.*

King County has established policies and procedures to reduce pollutants in discharges from lands owned or maintained by the County subject to this permit. These policies and procedures have been implemented by the various custodial agencies and drawn from a series of programs and documents. This program has been difficult to track and to ensure

that minimum standards are implemented. These minimum standards are to ensure that protective measures are in place for the elements listed above. The County owns or maintains numerous properties including: road ROW; active and inactive sand and gravel mining pits; maintenance facilities; stormwater facilities; office buildings; park and rides; solid waste transfer stations; equipment storage facilities; pump stations; wastewater treatment plants; parks; trails; animal shelters; and various other classes of developed and undeveloped properties.

In 2009, King County produced a document that drew from the following programs and manuals: the Regional Road Maintenance ESA Program Guidelines — Regional Guidelines, the SWDM, the SPPM, and, the King County Integrated Pest Management Program. This document is comprised of the sections of the above listed documents that relate to the permit conditions outlined in S5.C.9.b.vi and vii. This compilation document is referred to as [the SiMPla](#) and has been issued to all King County custodial agencies to be used as the minimum standard for maintenance of lands owned or maintained by King County agencies. Several agencies have internal manuals and programs that are equal to or exceed the SiMPla baseline requirements and will be used by those agencies as equivalent programs. Select King County properties have been issued discharge permits under other NPDES programs and have SWPPPs. These SWPPPs will be used instead of the SiMPla as they meet its minimum standards.

**S5.C.9.b.viii.**

*Implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions that could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.*

King County maintains a number of training programs within various agencies. These programs provide training to personnel in positions that have construction, operations, or maintenance job functions that could impact stormwater quality. Many of the operations and maintenance functions are conducted by Roads, whose personnel have participated in ongoing training programs for construction operations and maintenance for several years. Roads field crews and appropriate support personnel receive the training prescribed by the Regional Road Maintenance ESA Program Guidelines. The Regional Road Maintenance ESA training (Track 1, 2, & 3) focuses on BMP practices and uses, maintenance guidelines, design criteria, habitat requirements, and how to use BMPs to meet ESA requirements whose primary focus is to reduce operational impacts on water quality.

King County offers a series of training programs on the SWDM and coordinates with all departments to ensure that appropriate personnel receive this training. King County continues to review its agencies' programs and will update the list of personnel requiring training under this section. As the County finds additional positions requiring training under this section, it will address the training needs for both existing personnel and new hires.

Other positions must have CESCL certification. King County continues to review its agencies' programs and update the list of personnel requiring CESCL training under this section. As the County finds additional positions requiring training under this section, it will address the training needs for both existing personnel and new hires. Ecology has approved

King County's CESCL Training Program which is conducted by King County employees, thus enabling the County provide timely CESCL training for its employees.

SWS conducts an ongoing review of County programs to identify activities and positions whose operations or maintenance functions could impact stormwater quality. For ease in tracking permit-related training, the County is exploring ways it could use its central employee database.

**S5.C.9.b.ix.**

*Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this permit, that are not required to have coverage under the General NPDES Permit for Stormwater Discharges Associated with Industrial Activities or another NPDES permit that covers stormwater discharges associated with the activity. The Permittee shall identify facilities subject to this requirement. Implement non-structural BMPs. Generic SWPPPs that can be applied at multiple sites may be used to comply with this requirement. The SWPPP shall include periodic visual observation of discharges from the facility to evaluate the effectiveness of BMPs.*

King County has reviewed an inventory of all currently known County-owned properties and identified properties that meet this permit condition. SWPPPs were developed and have been implemented for these properties. The King County property inventory will continue to be updated with input from custodial agencies, and the properties reviewed for applicability to the one-year permit requirement. As properties that meet this requirement are identified, the custodial agencies will be required to develop and implement SWPPPs for those properties.

## **S5.C.10. Education and Outreach Program**

### **S5.C.10.a.**

*The SWMP shall include an education program aimed at residents, businesses, industries, elected officials, policy makers, planning staff and other employees of the Permittee. The goal of the education program is to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts. An education program may be developed locally or regionally.*

The County's diverse educational and outreach programs are almost all regional in nature, and many have existed and proven their value over the past ten years. The County has led the region in the use of social marketing in its education and outreach programs.

Social marketing is distinguished from other management approaches by six basic principles: (1) the framework of the marketing effort is designed to change behavior; (2) there is recognition in the program development of competition; (3) the marketing is directed to a typical consumer; (4) to help develop the programs, extensive research is first used to understand consumers' desires and needs; (5) populations are segmented and behavior changing messages are only effective with a selection of target audiences; and (6) continuous monitoring and revision of program tactics help to achieve desired outcomes.

### **S5.C.10.b.**

*Minimum Performance Measures:*

#### **S5.C.10.b.i.**

*Each Permittee shall implement or participate in an education and outreach program that uses a variety of methods to target the audiences and topics listed below. The outreach program conducted between February 16, 2007 and the expiration date of this permit shall be designed to achieve measurable improvements in each target audience's understanding of the problem and what they can do to solve it.*

King County implements numerous public outreach and education programs, many of which are targeted to one or more of the audiences specified in this permit requirement and address many of the specified topics through programs in several departments and divisions, and through partnerships with Local Hazardous Waste Management, regional salmon recovery (WRIA based) groups, Grant Exchange program and KCD. Some of these programs are primarily focused on topics that are related to stormwater, but include other critical factors, e.g. stewardship, soil conservation, wastewater, habitat restoration or protection, etc. Other programs provide significant relevance to stormwater impacts and behavior changes that alter those impacts (yard care, animal waste, car washing, LID practices, vehicle oil leaks, etc). Because of the wide diversity of King County's programs, they have been listed, and the one-year permit topics they address, in matrix form in Appendix 4. These programs reflect 2013 offerings. In subsequent years, the number and types of programs will change in keeping with changes in the service area, financial resources, and evaluation of the program's effectiveness.

In those programs most directly related to stormwater, there are ten distinct and sometimes overlapping areas of emphasis and/or delivery mechanisms. The emphasis areas are not designed as conventional education programs with the goal of conveying information and awareness, but rather as behavior change programs with the goal of motivating target

audiences to implement specific BMPs. The 10 areas of emphasis/delivery mechanisms and the related tools are found in Appendix 4.

As a direct response to the 2007 permit, King County facilitated the formation of a regional outreach consortium: STORM, which focuses entirely on meeting permit requirements. With the public education and outreach requirements virtually identical in both the Phase I and Phase II permits, municipalities quickly saw the advantage of combining their resources to create a strategy and campaign for outreach that would transcend jurisdictional boundaries. King County serves on the Steering, Campaign, and Measurement Committees. STORM will coordinate its efforts with the Salmon Conservation Plan implementation occurring at the WRIA level and with the Puget Sound Partnership.

King County on behalf of STORM was a successful applicant for one of Ecology's GROSS grants for 2012-2013 and has been using the grant money to create and implement a regional outreach and messaging campaign to further STORM's message. This new campaign will draw attention to the regional problem with vehicle leaks and publicize best management practices designed to help citizens check for and repair polluting vehicle leaks. King County staff manages the grant on behalf of the forum with the help of a consultant and a steering and advisory committees around five key tasks:

1. Marketing Strategy
2. Outreach Tools
3. Media Campaign
4. Implement Targeted Outreach Programs
5. Project Evaluation

*Target Audiences and Relevant Topics:*

1. *General Public*

- *General impacts of stormwater flows into surface waters.*
- *Impacts from impervious surfaces.*
- *Source control BMPs and environmental stewardship, actions and opportunities in the areas of pet waste, vehicle maintenance, landscaping and buffers.*

The matrix in Appendix 4 details all existing programs targeting general public audiences and topic relevance.

2. *General public and businesses, including home based and mobile businesses*

- *BMPs for use and storage of automotive chemicals, hazardous cleaning supplies, carwash soaps and other hazardous materials.*
- *Impacts of illicit discharges and how to report them.*

The Water Quality Compliance Program of SWS audits businesses and, as part of the audit, provides technical assistance and information about relevant BMPs required in the SPPM to owners or managers.

The Airport will provide annual training to the Airport's tenants on the Airport's policies related to spill response and the requirements of their stormwater permits.

The matrix in Appendix 4 details all educational programs targeting the general public and select business audiences and their topic relevance.

3. *Homeowners, landscapers and property managers*

- *Yard care techniques protective of water quality.*
- *BMPs for use and storage of pesticides and fertilizers.*
- *BMPs for carpet cleaning and auto repair and maintenance.*
- *Low Impact Development techniques, including site design, pervious paving, retention of forests and mature trees.*
- *Stormwater treatment and flow control BMPs.*

A wide array of programs that address homeowner and general public awareness and behaviors, related to all or many permit topics, is described in Appendix 4.

4. *Engineers, contractors, developers, review staff and land use planners*

- *Technical standards for stormwater site and erosion control plans.*
- *Low Impact Development techniques, including site design, pervious paving, retention of forests and mature trees.*
- *Stormwater treatment and flow control BMPs.*

SWS offers classes on the SWDM for development professionals. These include instruction on LID/ flow control BMPs, water quality facility design, and hydraulic and hydrologic modeling. SWS staff also provides presentations for interested groups on these and related topics.

**S5.C.10.b.ii.**

*Between February 16, 2007 and the expiration date of this permit, each Permittee shall implement or participate in an effort to measure understanding and adoption of the targeted behaviors for at least one targeted audience in at least one subject area. The resulting measurements shall be used to direct education and outreach resources most effectively as well as to evaluate changes in adoption of the targeted behaviors.* S5.C.10.b.iii.

All stormwater-related outreach efforts already have or will have a measurement strategy for targeted audiences. Some of these strategies will be developed by STORM in the case of the Ecology GROSS grant, or by DNRP program coordinators.

## *2013 Stormwater Management Program*

Measurement will include both implementation monitoring and effectiveness monitoring. Implementation monitoring is typical of conventional education programs and includes counts of participants, materials, etc. Effectiveness monitoring is based on outcome measures (i.e. behavior changes) and will constitute the core of the program evaluation strategy.

The existing Environmental Behavior Index (EBI) instituted by King County in 2005 to measure key environmental behaviors of the general public in our region, will be used to measure behavior change biennially and over the course of time. The index is based on a King County wide public survey which was repeated again late in the 2010 Permit period. [The results of this bi-annual survey became available early in 2011.](#) The survey was able to incorporate additional jurisdictional over-sampling for those municipalities. The current EBI will be launched in second quarter 2013. The survey documents behavior change and trends over longer periods of time, helps direct adaptive management, and documents real behaviors for many stormwater BMP topic areas including pet waste, carwashing, fertilizer use, vehicle leaks, and LID. The EBI has been so useful that The Puget Sound Partnership has created its own version of the EBI and is measuring the Puget Sound Region.

### **S5.C.10.b.iii.**

*Each Permittee shall track and maintain records of public education activities.*

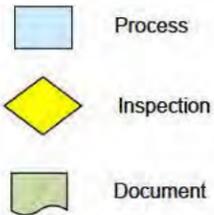
A tracking system has been developed and implemented both internally and as part of the STORM measurement strategy together with an efficient system for all participating municipalities to report results.

## **DICTIONARY OF ACRONYMS**

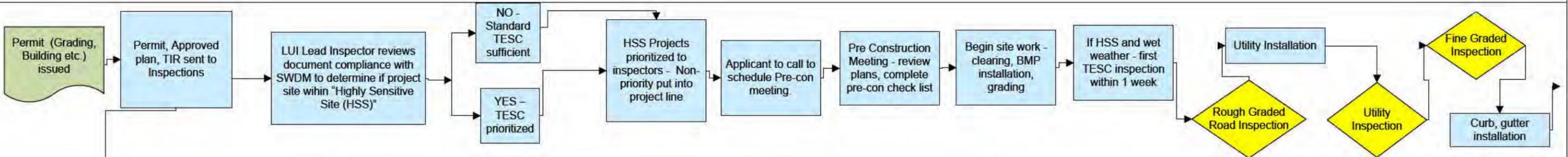
**AKART** - All known, available, and reasonable methods of prevention, control and treatment  
**APWA** - American Public Works Association  
**BMP** - Best Management Practice  
**CESCL** - Certified Erosion and Sediment Control Lead  
**CFR** - Code of Federal Regulations  
**CIP** - Capitol Improvement Project  
**CTF** - Compliance Tracking Form  
**DPER** - Department of Permitting and Environmental Review (King County)  
**DES** - Department of Executive Services (King County)  
**DNRP** - Department of Natural Resources and Parks (King County)  
**DOT** - Department of Transportation  
**Ecology** - Washington State Department of Ecology  
**ERTS** - Environmental Response Tracking System  
**EPA** - Environmental Protection Agency  
**ESA** - Endangered Species Act  
**GIS** - Geographic Information System  
**GPS** - Geographic Positioning System  
**IC & IDDE** - Illicit Connections and Illicit Discharges Detection and Elimination  
**IDTF** - Illegal Dumping Task Force  
**IPM** - Integrated Pest Management  
**KC** - King County  
**KCC** - King County Code  
**KCD** - King Conservation District  
**KCIA** - King County International Airport  
**KCPR** - King County Parks and Recreation (DNRP)  
**LID** - Low Impact Development  
**LUIS** - Land Use Inspection Services Division of DPER  
**M/D** - Maintenance/defect  
**MS4** - Municipal Separate Storm Sewer System  
**MS3** - Municipal Separate Storm Sewer  
**NPDES** - National Pollution Discharge Elimination System  
**NWRO** - Northwest Regional Office, Ecology  
**ORI** - Outfall Reconnaissance Inventory  
**PCHB** - Pollution Control Hearing Board  
**PHSKC** - Public Health – Seattle & King County  
**ROAD MAP** – Regional Operations and Maintenance Program, a regional forum for consistent O &M, mapping, and other standards  
**ROW** - Right of Way  
**RSD** - Roads Services Division (KC, DOT)  
**SiMPia** - Site Management Plan document, see S5.C.9.b.vi. for detail.  
**SMMWW** – Ecology’s Stormwater Management Manual for Western Washington  
**SPCC** - Spill Prevention, Control & Countermeasure Plans  
**SPPM** - Stormwater Pollution Prevention Manual  
**STORM** – Stormwater Outreach for Regional Municipalities, a regional public outreach forum  
**SWDM** – King County’s Surface Water Design Manual  
**SWG** - Stormwater Working Group, a committee of the Regional Stormwater Monitoring Group  
**SWM** - Surface Water Management  
**SWMP** - Stormwater Management Program  
**SWPPP** - Stormwater Pollution Prevention Plan  
**SWS** - Stormwater Services (KC, DNRP, WLRD)  
**TESC** - Temporary Erosion and Sediment Control  
**TMDL** - Total Maximum Daily Load  
**WLRD** - Water and Land Resources Division (King County)  
**WRIA** - Water Resource Inventory Area

**Appendix 1 -  
King County DPER Process Flowcharts**

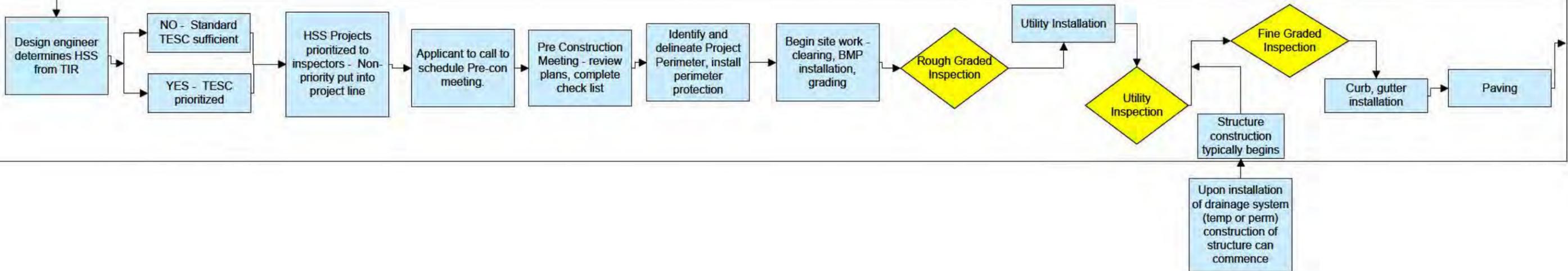
# Site Inspections -



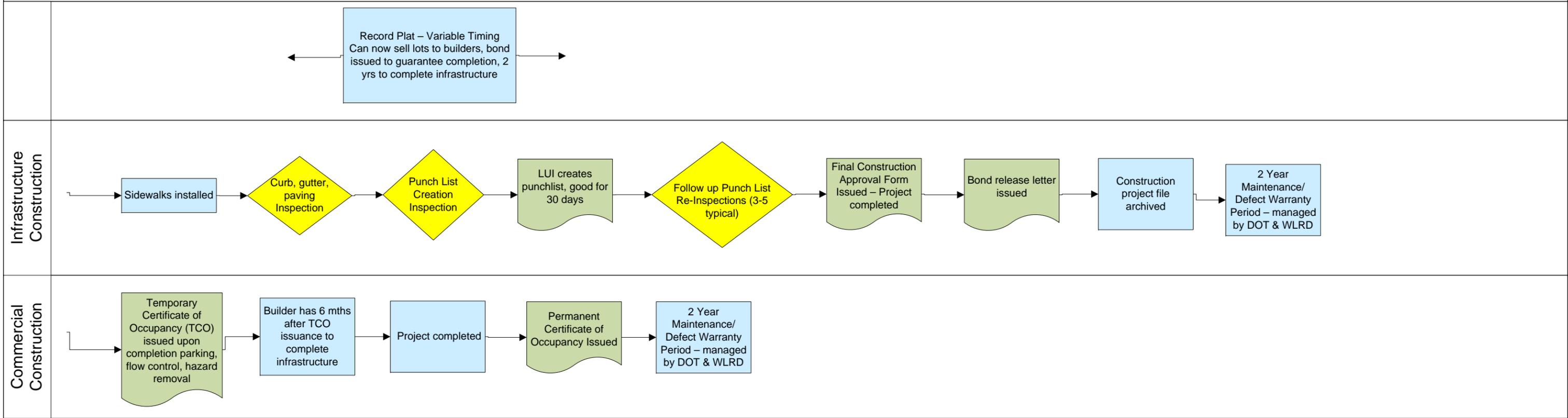
Infrastructure Construction



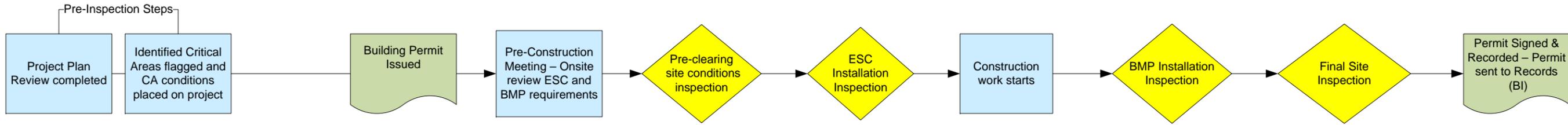
Commercial Construction



Site Inspections - DRAFT



# Residential Site Inspection Process\* Flowchart



Process



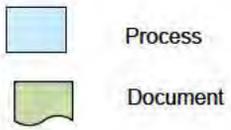
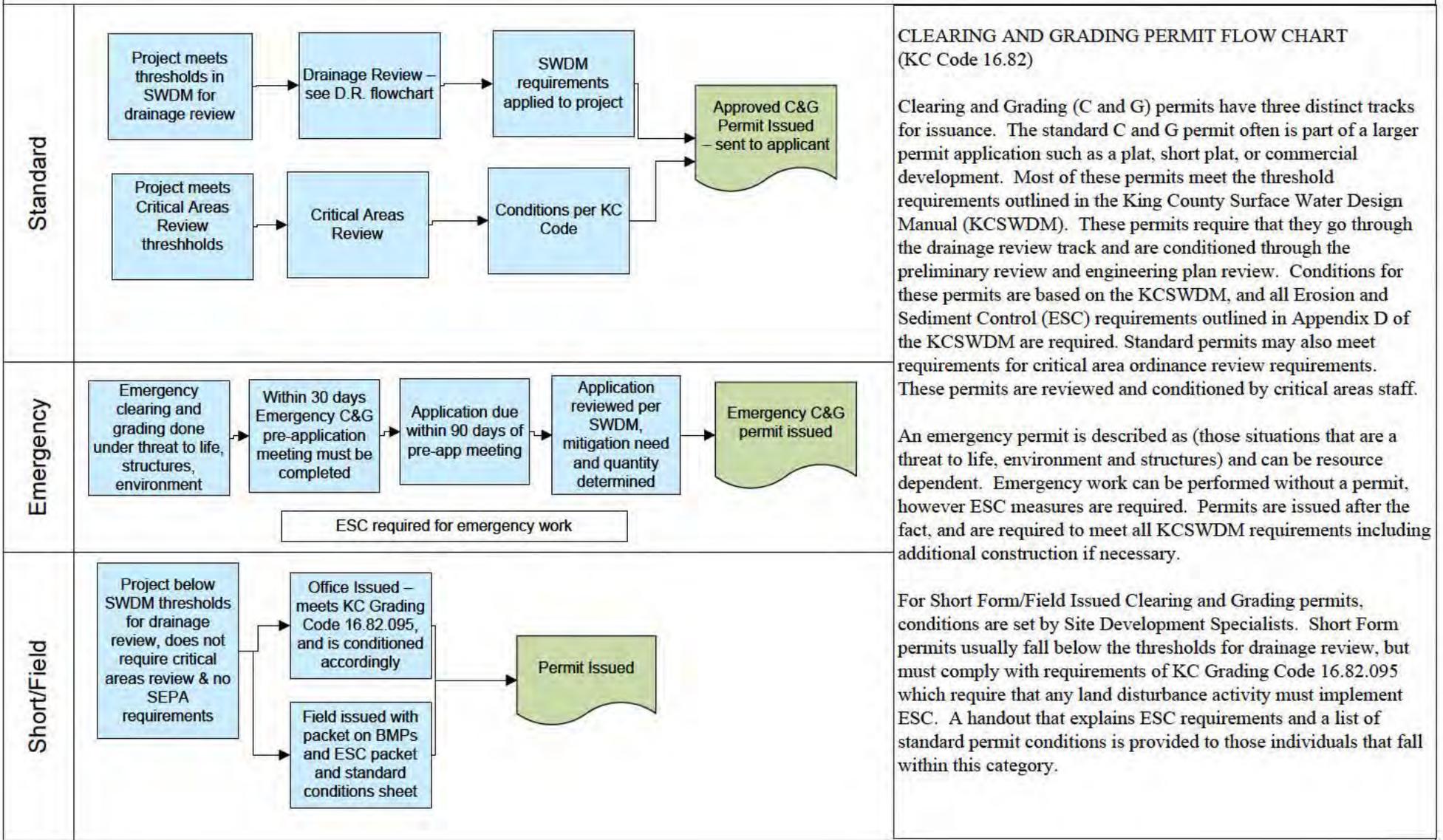
Inspection



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\*Process outlined above reflects only those steps of residential development process related to site conditions inspection process.

# Clearing and Grading Permit Process (KC Code 16.82)



**Appendix 2 -  
Structural Stormwater Control Program**

## **Appendix 2—Structural Stormwater Control Program - Project Information**

The County's structural stormwater control program is a two-tiered program of capital projects operated primarily out of King County WLRD but also includes projects implemented by other County agencies that meet the intent of the program. The first tier consists of projects whose primary purpose is controlling stormwater runoff from developed land to address its quantity and quality impacts to waters of the state that are not otherwise addressed by the actions of this SWMP. Included are projects specifically aimed at (1) reducing stormwater quantity and/or quality impacts caused by existing developed land, and/or (2) preventing such impacts anticipated to be caused by future land development that are not otherwise addressed by development regulations. The second tier consists of projects whose primary purpose is not controlling stormwater runoff to reduce or prevent stormwater impacts to waters of the state, but nonetheless result in a stormwater impact reduction/prevention benefit to these waters. Examples of second tier projects include habitat acquisition projects, habitat restoration projects, river flood protection projects (i.e., levees, revetments, flood damage repairs, etc.), and floodplain home buyout/restoration projects.

These projects are considered to comply with MEP and AKART requirements because: (1) they reflect what King County is best able to implement within its available funding and demands for surface water capital projects; and (2) they address stormwater impacts not adequately controlled by other permit-required actions, which basically complies with permit condition S5.C.6. By complying with this condition together with all other applicable permit requirements, compliance with MEP and AKART is said to be achieved as set forth in King County's NPDES Municipal Stormwater Permit condition S4.E.

The following tables list and describe the structural stormwater control projects currently planned to be continued this permit term beginning with calendar year 2008 and including calendar years 2009 - 2013. These tables will be updated each year to reflect changes in projects and project status.

In compiling the tables, the following nomenclature was used to categorize and denote how each project is consistent with the various project types mentioned in Condition S5C6 of the permit for inclusion in the structural stormwater controls program.

Nomenclature for Stormwater Control Project Types:

- Flow Control – means the project constructs or modifies a flow control facility or BMP to reduce existing stormwater runoff peaks, volumes, durations, and/or flashiness.
- Treatment – means the project constructs or modifies a stormwater treatment facility or implements other measures to achieve a specific pollutant removal goal.
- WQ Improvement – means the project implements measures aimed at incrementally improving water quality by increasing pollutant removal and/or reducing temperature.
- Erosion Control – means the project implements measures aimed at preventing or reducing erosion that is causing turbidity and/or sedimentation problems.
- Riparian Buffer Restoration – means the project includes plantings along a stream channel aimed at restoring, among other things, the pollutant removal/temperature reduction functions of riparian vegetation.

- Riparian Improvement – means the project includes measures that improve stream bank or riparian hydrology and water quality functions such as removal of structures/impervious surfaces, setting back levies, planting vegetation, and converting from rock stabilization to bio-stabilization of stream banks.
- Wetland Improvement – means the project includes measures that improve the hydrology and water quality functions of a natural wetland and/or its buffers.
- Habitat Acquisition – means the project is a purchase of land for the purpose of protecting and/or enhancing aquatic habitat.
- Acquisition – means the project is a purchase of land for the purpose of precluding development, preserving hydrology, and protecting water quality.

Tier 1 Structural Stormwater Control Projects (started this permit term)							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
1	2008	Mill Creek Trib 045	Flow Control	Assist City of Auburn with feasibility analysis and implementation of regional detention and other improvements to reduce flows contributing to downstream erosion, sedimentation, and drainage problems.	\$400K	Reduce flows causing erosion that contributes to turbidity and sedimentation in Mullen Slough and Mill Creek.	Feasibility report completed and passed on to Auburn for disposition
2	2008	White Center Stormwater Wetland WQ Improvement	Treatment	Construct stormwater wetland to treat runoff from 100 acres of commercial and residential area.	\$754K	Target 40% TSS removal from stormwater discharged to Mallard Lake.	<b>Dropped</b> –could not acquire property needed.
3	2008	White Center Regional Stormwater Pond Retrofit Cell 1	Flow Control and WQ Improvement	Retrofit Cell 1 of pond by removing non-native plants, excavating non-native fill, modifying the outlet structure, and replanting with native species to reduce downstream flooding, provide additional pollutant removal, and increase stormwater wetland habitat and aesthetic value.	\$1.2M	Reduce flows and target 40% TSS removal from stormwater discharged from the pond to Mallard Lake.	Pond expansion to be completed in 2012, plus the plantings.
4	2008	White Center Heights Pond/Wetland Restoration	Flow Control and WQ Improvement	Acquire adjacent property for public ownership, remove invasive plants, replant with native species, and retrofit outlet structure to dampen the water surface level fluctuation of the pond/wetland.	\$650K	Reduce water level fluctuations in wetland and improve water quality of stormwater discharged to Lake Hicks and Salmon Creek	To be completed in 2012.
5	2008	Lake Hicks Inlet Repairs/Modifications	WQ Improvement	Modify the inlets to Lake Hicks to enhance pollutant removal by repairing an existing grass-lined channel and vault.	\$80K	Improves water quality of stormwater discharged to Lake Hicks	Completed.

Tier 1 Structural Stormwater Control Projects (started this permit term)							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
6	2008, 2009, 2010, 2011; 2012; & 2013	Neighborhood Drainage Assistance Program (NDAP)	Flow Control and Erosion Control	Program of projects to assist private property owners with addressing stormwater conveyance problems that occur on their property as a result of upstream development.	Varies from year to year (\$0 in 2011, \$25K in 2012), \$130K in 2013	Solutions to some problems result in a reduction of flows or erosion that in turn reduces turbidity in waters of the state.	5 projects completed in 2008. 7 completed in 2009. None done in 2010 or 2011. None completed in 2012. Estimated 2 small and 2 medium in 2013.
7	2008, 2009, 2010, 2011; 2012; & 2013.	Agricultural Drainage Assistance Program (ADAP)	Riparian Buffer Restoration	Program of projects to assist farmers with cleaning of fish-bearing drainage ditches. All projects include some restoration of riparian vegetation to increase shade on ditches and stabilize ditch banks. Program is being revised during 2010 to streamline regulatory requirements (state and local) and link agricultural and habitat restoration priorities more effectively.	Varies from year to year (\$387K in 2011, \$112K in 2012), \$46,297 in 2013	Riparian plantings required on all projects serve to reduce temperature and turbidity of stormwater flows.	11 projects completed in 2008. Three completed in 2009. Three completed in 2010. Three completed in 2011. Three to five planned In 2012. One planned for 2013.
8	2009	Billy Creek Ravine Stabilization	Erosion Control	Stabilize 200 feet of ravine downstream of County outfall to check erosion and protect public and private property.	\$200K	Reduce erosion that contributes to downstream turbidity and sedimentation in Bill Creek and Juanita Creek	Completed in 2012 in partnership with the City of Kirkland.
9	2010	May Valley Flood Reduction Program	Riparian Improvement and Erosion Control	Implement projects along May Creek to remove sediment impacting valley drainage, to increase shading to curtail invasive aquatic vegetation, and to address erosion problems in steeper reaches.	\$1.4M for first sediment removal project.	Riparian plantings will reduce stream temperatures. Reduce erosion that contributes to turbidity and sedimentation in May Creek	First sediment removal project was to be completed in 2012 but will likely be delayed to 2014 property acquisition and permit pending
10	2010	Hamm Creek WQ Pond	Treatment	Construct wetpond to remove pollutants from stormwater discharges coming from commercial area and MS4.	\$240K	Reduction of TSS in stormwater discharged to Hamm Creek TBD based on available space.	Dropped due to reallocation of funding to other more pressing needs.
11	2011	Lake Hicks Alum Treatment	Treatment	Apply alum treatment to Lake Hicks to reduce bacteria to levels safe for swimming.	\$50K	Amount of bacteria reduction TBD based on sampling.	Completed in 2011.
12	2011, 2013 or later	Bear Creek WQ Improvement (Targeted Stormwater Retrofits)	Treatment	Construct single or multiple treatment facilities to clean up stormwater discharges from worst polluting older developed areas that drain to highest resource value creek reaches.	TBD based on available grant funding	Reduction of TSS in stormwater discharged to Bear Creek TBD based on available space.	Postponed to next permit term.

Tier 1 Structural Stormwater Control Projects (started this permit term)							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
13	2014 2013 or later	Juanita Creek Flow Control Improvement (Targeted Stormwater Retrofits)	Flow Control	Construct single or multiple flow control facilities to address quantity impacts from older developed areas as recommended by Juanita Creek Basin Retrofitting Analysis Project.	TBD based on available grant funding	Yet to be determined through analysis work now under way.	Postponed to next permit term.
14	2014 2013 or later	Juanita Creek WQ Improvement (Targeted Stormwater Retrofits)	Treatment	Construct single or multiple treatment facilities to clean up stormwater discharges from older developed areas as recommended by Juanita Creek Basin Retrofitting Analysis Project.	TBD based on available grant funding	Yet to be determined through analysis work now under way.	Postponed to next permit term.
<b>New Projects Added in 2009</b>							
15	2009	Fairwood Golf Course Pipe Replacement	Erosion Control	Replaced old failing main trunkline pipe that was causing sink holes and threatened to wash out a whole fairway, including a wastewater sewer line, and send sewage and substantial amounts of sediment downstream into Madsen Creek.	\$1.8M	Removed a significant threat of sewage discharge and sedimentation and turbidity in Madsen Creek	Completed.
16	2011	Seola Pond Retrofit	WQ Improvement	Retrofit existing regional detention pond to solve existing flooding problem and add in treatment features to improve stormwater quality.	\$1.5M	Maximize TSS reduction in space available. Reduce peak flow and downstream turbidity	Grant funding obtained. Grant agreement has been signed. Begin design in 2012. Forecasted to be completed in 2015; agreement with City of Seattle pending.
<b>New Projects Added in 2010</b>							
17	2011	Upper Jones Road Ravine Stabilization	Erosion Control	Construct a tightline or other form of stabilization to alleviate a severe erosion problem down a steep ravine.	\$1.1M	Reduce erosion that contributes to downstream turbidity and sedimentation.	Begin alternatives analysis in 2012. Project canceled in 2013 at completion of analysis.
18	2011	Vashon Island P&R LID Retrofit	Flow control and WQ Improvement	Low Impact Development (LID) demonstration project that retrofits an existing park and ride lot to add permeable pavement and install a rain garden to reduce and treat runoff from the lot.	\$350K	Reduce runoff volume and improve water quality of stormwater discharged to Judd Creek.	Grant funding obtained. Grant agreement has been signed. To be completed in 2012. Project and Grant canceled in 2013.
19	2010	Lake Hicks Wet Vault	WQ Improvement	Replace the pump and the aged manhole with a new pump and vault. This will remove flows from Lake Hicks – a 303D listed water body.	\$100K	Reduce phosphorus input to Lake Hicks and improve water quality.	Design near completion. Construction is scheduled for Q3 2013.

Tier 1 Structural Stormwater Control Projects (started this permit term)							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
New Projects Added in 2011							
20	2011	Fairwood 11 Pipe Replacement	Erosion Control	Replaced section of old main trunkline pipe that was collapsing and creating sinkholes. Failure could have washed sediments downstream into Molasses Creek.	\$350K	Reduce erosion that contributes to downstream turbidity and sedimentation.	Completed as an emergency project. In 2011.
21	2011	Holmes Point Drive Sinkhole	Erosion Control	Fixed a miss-connected pipe that caused a sink hole to form.	\$40K	Reduce downstream turbidity.	Completed in 2011.
22	2011	Tate Creek Sedimentation Problem	Erosion Control	Restored stream back to its natural channel after beaver dam break caused severe erosion and sedimentation, leading to channel avulsion.	\$160K	Reduce overbank erosion and turbidity downstream.	Completed in 2011 as an emergency project.
23	2011	Johnson Pond Dam Remediation	Erosion Control	Hazard mitigation improvements to a private dam to prevent breach.	\$640K	Prevent downstream erosion and turbidity from a possible dam breach.	Completed in 2011.
	2010	Wilderness Rim Flood Program	Flood Control	Wilderness Rim community has experienced severe flooding in January 2009 and multiple times in the recent 10 year period. The project will undertake several actions to decrease the flood impact.	\$1,347M	Prevent flooding	To be completed in 2018
	2013	Allen Lake Outlet Improvement	Flood Control	This project intends to improve channel conveyance of WRIA 08.08.0111A to provide road protection of Northeast 8th Street. Small (< \$150K) projects implemented ahead of large capital projects are identified as Early Actions. This work is identified and planned by the Regional Capital Planning project, and are funded independently of large capital projects. The intent of early action projects is to either supplement the large CIP, or sustain the function of the system until the large CIP can be constructed	\$160,347	Culvert replacement	To be completed in 2013
	2013	Cedar Valley Facility Remediation	WQ improvement	This project will convert an existing stormwater settling pond to a wet pond. This project will improve the water quality of the stormwater facility.	\$75K	Facility Remediation	To be completed in 2013
	2013	Tuscany Facility Remediation	WQ improvement	This project will convert an existing stormwater flow control pond to a stormwater wetland. This project will improve the water quality of the stormwater facility.	\$75K	Facility Remediation	To be completed in 2013

Tier 1 Structural Stormwater Control Projects (started this permit term)							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
	2013	Fairwood 11 Pipe Replacement #2	Erosion and Water Quality	Fairwood 11 Conveyance Pipe Replacement project is a capital improvement project to retrofit an existing King County regional storm water flow control facility, Facility DR0516. The facility controls flow discharges of Molasses Creek in to a 2000 feet underground conveyance pipeline which directs flow to open ravine on the south slope of Cedar River valley near Renton. The pipe to be replaced also performs in line flow control of Molasses Creek.	\$921K	Pipe Replacement	To be completed in 2017
	2013	Fairwood 11 Regional Facility Remediation	Flow Control	Fairwood 11 Facility Remediation project is a capital improvement project remediation to provide additional overflow protection at an existing King County regional storm water flow control facility, Facility DR0516. The facility controls flow discharges of Molasses Creek in to a 2000 feet underground conveyance pipeline which directs flow to open ravine on the south slope of Cedar River valley near Renton.	\$140K	Reduce downstream impact	To be completed in 2015
	2012	Horseshoe Lake Flood Reduction	Flood Control	This project will convey flows from Horseshoe Lake to a receiving facility to reduce the risk of flooding to homes and roadways access around Horseshoe Lake.	\$800K	Reduce homeowner flooding	Currently in negotiation with homeowners and developer
	2013	Aging Pipe Replacement Program	Flow Control	This program will initiate CIPs using a priority list developed from gathering data using in-pipe inspections and engineering assessments. These assessments will determine pipe condition/failure risk and the impact of pipe failure to public safety and aquatic resources. The information collected from these assessments will be used to prioritize the pipe replacements and recommend a plan of action that may include replacement, repair, or subsequent inspection over time to monitor pipe condition.	\$1.4M	Inventory assessment & Pipe Replacement	Ongoing program
	2013	Small Stream Basin Retrofit program	Water Quality	The project will perform preliminary assessment for the purpose of retrofit stormwater facilities for water quality improvement in the Bear Creek Trib. 0114 area.	\$1.8M	Inventory assessment & retrofit of facilities	Ongoing program
	2011	Wilderness RIM buyout Phase 2	Flood Control	Purchase of 2 properties followed by demolition and native planting in partnership with FEMA.	\$787K	Buyout of flooded properties and demo	To be completed with restoration in 2013 and closed

Tier 1 Structural Stormwater Control Projects (started this permit term)							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
	2011	Wilderness Rim Phase 1	Flood Control	Purchase of 2 properties followed by demolition and native planting in partnership with FEMA.	\$626K	Buyout of flooded properties and demo	To be completed with restoration in 2013 and closed

### Tier 2 Structural Stormwater Control Projects

The second tier consists of projects whose primary purpose is not controlling stormwater runoff to reduce or prevent stormwater impacts to waters of the state, but nonetheless result in a stormwater impact reduction/prevention benefit to these waters.

Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
1	2004	Big Spring/Newaukum Creek Confluence	Habitat Acquisition	Acquire multiple parcels for preservation purposes.	\$2M	Preserves riparian habitat on Big Spring Creek and Newaukum Creek north of Enumclaw.	Acquisitions complete; working with Corps of Engineers to certify.
2	2007	Mount Peak Addition	Acquisition	Acquire multiple parcels of land, on the largely unprotected southern side of Mount Peak, adjacent to Mount Peak Park, near SE Mud Mountain Road, southeast of Enumclaw.	\$2.3M	Preserves hydrologic processes and water quality.	Completed.
3	2007	Paradise Valley Acq II	Acquisition	This acquisition project adds 30 contiguous acres (3 parcels) to the Paradise Valley Natural Area in the Judd Creek watershed on Vashon Island. This acquisition is part of an ongoing effort to preserve the Paradise Valley reach of Judd Creek, which encompasses nearly 165 consecutive acres of undeveloped forested land and riparian habitat and includes over 2 miles of the stream's mainstem.	\$175K	Preserves riparian habitat, hydrologic processes, and water quality.	Completed.
4	2007	Auburn Narrows Phase 2	Riparian Improvement	Create side channel/off-channel habitat and enhance riparian areas.	\$479K	Improves riparian hydrology and water quality functions.	Monitoring/maintenance of plants.
5	2007	Cold Creek Williams Mitigation	Wetland Improvement	Enhance topography, hydrology and riparian/wetland vegetation	\$747K	Enhance wetland hydrology, connectivity and riparian function	Monitoring/maintenance of plants.
6	2007	Ellis Creek Marsh	Wetland Improvement	Remove barrier between wetland and marine shoreline, enhance wetland/shoreline vegetation	\$246K	Enhance shoreline and wetland habitat and water quality	Monitoring/maintenance of plants.
7	2008	Gilead/MacDonald Floodplain Reconnection	Riparian Improvement	Snoqualmie. Left Bank Off Channel Habitat Reconnect @ RM 23.3	\$477K	Improves riparian hydrology and water quality functions.	Monitoring/maintenance of plants.

Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
8	2008	Paradise Valley - Judd Creek (Vashon)	Habitat Acquisition	Acquire easement over riparian and meadow land on Judd Creek, located on 11th Avenue SE, on Vashon Island. Acquisition is part of a larger multi-year, multiple parcel effort to preserve the Paradise Valley reach on Judd Creek.	\$625K	Preserves riparian habitat.	Completed.
9	2008	Chinook Bend Levee Removal	Riparian Improvement	Remove left bank levee along the length of the Chinook Bend Natural Area.	\$1.3M	Improves riparian hydrology and water quality functions.	Phase 1 constructed; Phase 2 constructed in 2011. Monitoring and maintenance ongoing
10	2008	Lower Tolt River Floodplain Restoration	Riparian Improvement	Partner with Seattle to restore natural river processes in lower half mile of Tolt River near Carnation. Remove some or all of the existing right-bank levee and replace with a set-back levee to maintain flood protection. Other habitat enhancements include placement of LWD, invasive weed control, and reestablishment of native riparian vegetation.	\$3.2M	Improves riparian hydrology and water quality functions.	Constructed 2008/09, now monitoring and maintenance ongoing.
11	2008	Duwamish Site 1 (North Winds Weir Restoration)	Riparian Improvement	Create 2 acres of off-channel habitat in transition zone at RM 6.3; re-vegetate.	\$740K	Improves riparian hydrology and water quality functions.	Monitoring and maintenance.
12	2008, 2009, 2010, and 2011	Small Habitat Restoration Program (SHRP) County-wide	Riparian Improvement and Erosion Control and WQ Improvement	Program of small-scale habitat restoration projects throughout King County SWM service areas. Projects include planting native vegetation, stabilizing eroding stream banks, restoring fish access to upstream habitat, installing livestock fences, controlling invasive weeds, and providing technical assistance to landowners.	Variable/TBD	Riparian plantings reduce temperature of stream flows and enhance water quality. Bank stabilization reduces erosion and associated turbidity. Livestock fences reduce in-stream pollution.	Variable.
13	2009	Fenster-Pautzke Levee Removal Ph 2	Revetment removal/ setback revetment/ riparian improvement	Remove levee, lower terrace, revegetate, and add large woody debris at RM 32	\$1.4M	Improves riparian hydrology and water quality functions.	Final planting completed in 2011; maintenance and monitoring ongoing.
14	2009	<del>Bear Cottage/Cold Creek Acquisition</del>	<del>Acquisition</del>	<del>Acquire and protect 35 acres (Nichols farm property) on Cottage Lake Creek.</del>	<del>\$1.4M</del>	<del>Preserves hydrologic processes and water quality in Cottage Lake Creek and Bear Creek.</del>	<del>Project cancelled in 2011; unwilling sellers.</del>
15	2013	Big Springs Creek Channel Relocation	Riparian Improvement	Relocate creek section from ditched system to meandered channel.	\$719K	Improves riparian hydrology and water quality functions.	Implementation.

Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
16	2010	Cottage Lake Creek	Habitat Acquisition	Acquire riparian habitat along approximately 1/2 mile of Cottage Lake Creek, near Avondale Road.	\$1.5M	Preserves riparian habitat along Cottage Lake Creek.	Project cancelled in 2011; unwilling sellers.
17	2010	Grand Ridge Additions	Acquisition	Acquire forest land on Grand Ridge and Mitchell Hill in the I-90 corridor east of Issaquah. The first priority parcels contain high quality mature second growth forest.	\$2.4M	Preserves hydrologic processes and water quality.	Project completed in 2011.
18	2008	Carlin Levee Removal Project	Riparian Improvement	Remove levee, enhance riparian vegetation and remove invasive species.	\$44K	Improves riparian hydrology and water quality functions.	Monitoring/maintenance of plants.
19	2008	Des Moines Creek Habitat Enhancement Phase 2	Riparian Improvement	Increase channel complexity and enhance riparian vegetation	\$76K	Improves riparian hydrology and water quality functions.	Invasive plant species control/ Monitoring/maintenance of plants.
20	2008	Lower Newaukum Creek Habitat Restoration	Riparian Improvement	Increase channel complexity and enhance riparian vegetation	\$682K	Improves riparian hydrology and water quality functions.	Monitoring/maintenance of plants.
21	2008	Mullen Slough Habitat Enhancement	Riparian Improvement	Enhance riparian vegetation and remove invasive species	\$100K	Improves riparian hydrology and water quality functions.	Monitoring/maintenance of plants.
22	2008	Miller River Home Buyout	Riparian Improvement	This project will remove homes from a hazard area where the Old Cascade Highway crosses the Miller River near its confluence with the South Fork Skykomish River. The County will acquire property and remove housing and other structures from the flood hazard area. Includes riparian plantings.	\$865K	Removal of structures allows restoration of floodplain habitat and will improve riparian hydrology and water quality functions. Removal of hazardous materials and waste from potential flood areas.	Project delayed: Initial acquisitions completed. Remaining Landowner not currently interested in selling. Delayed for future year.
23	2009	South Fork Levee System Improvements	South Fork Levee System Improvements	This project will rebuild and strengthen selected portions of the existing levee system along both banks of the South Fork Snoqualmie River through North Bend and the surrounding unincorporated areas in a manner that maintains current preferential protection of the more heavily developed parts of the City of North Bend.	\$12M	Completed project will reduce erosion and scour of riverbank. Includes riparian plantings.	In design. Some early action elements completed in 2011.
24	2008	Aldair Buyout	Riparian Improvement	This project will greatly reduce the public safety risk associated with potential failure of the Aldair levee. Increased seepage through the levee during recent floods is an indication of increased risk for sudden, catastrophic failure. The County will purchase and remove the existing homes from low-lying ground immediately behind the deteriorating Aldair levee.	\$8M	Removal of residential structures allows restoration of floodplain habitat. Riparian plantings will be included to improve hydrology and water quality functions.	Ongoing. First property acquired; feasibility evaluation underway to determine additional needs.

Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
25	2008	Lower Snoqualmie River Flood Damage Repairs	Riparian Improvement and Erosion Control	This project includes repair of several King County-managed flood control facilities damaged in the November 2006 and January 2009 flood events. Actual repair priorities are set based on urgency, risk, and budget availability. Priority project sites include McElhoe, Pearson, Sinnera, Quale, Tolt Pipeline Protection (RM 13.5) and other damaged facilities.	\$1.7M	Completed project will reduce erosion and scour of riverbank. Riparian plantings will also be included in facility rehabilitation to improve hydrology and water quality functions.	Completed
26	2008	Neal Road Relocation	Riparian Improvement	Relocate Neal Road, which runs parallel to the Fall City Carnation Road (State Route 203), outside of erosion hazard area created by the Snoqualmie River. Abandon existing road and allow natural river processes to occur.	\$1.7M	Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings.	Canceled.
27	2008	Alpine Manor Mobile Home Park Neighborhood Buyout	Riparian Improvement	Nine of the approximately 35 homes in the mobile home park are in the severe or moderate channel migration zone, and five homes in the neighborhood are within the normal channel migration zone. This project will acquire and remove most, if not all, of the homes in the neighborhood at risk from flooding and channel migration.	\$7.9M	Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings. Removal of hazardous materials and waste from potential flood areas.	Delayed until 2011. Acquired one of the five channel migration homes in 2011. More acquisitions ongoing in 2012.
28	2008	Willowmoor Floodplain Restoration	Riparian Improvement	This project will reconfigure the transition zone in order to increase channel complexity, establish a native plant community and riparian buffer, and maintain adequate flow conveyance to meet flood control obligations in a sustainable manner.	\$3.5M	Project will restore floodplain connectivity, restoration of a tributary, and includes extensive riparian plantings to improve hydrology and water quality functions.	Canceled. Project no longer planned.
29	2008	Issaquah Creek Streambank Stabilization	Riparian Improvement and Erosion Control	This project will repair flood damage using biotechnical bank stabilization techniques at up to three locations on Issaquah Creek. The damaged banks threaten residential homes and a road and bridge at risk from channel migration and erosion.	\$354K	Project will reduce erosion and scour of streambank. Riparian plantings will be used to biostabilize targeted sections of streambank.	City of Issaquah now doing project.

Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
30	2008	Cedar Grove Mobile Home Park Acquisition	Riparian Improvement	This project will eliminate all future flood damage and safety risks for these mobile home park residents by acquiring the entire flood-prone property (at fair market value); assist in relocating park residents; remove the homes and all associated structures; and decommission and remove supporting infrastructure, such as the road, utilities, septic systems, and water supply wells.	\$5.1M	Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings. Removal of hazardous materials and waste from potential flood areas.	Completed.
31	2008	Cedar Rapids Levee Setback	Riparian Improvement	Provide local match for \$1.5 M levee set back project designed to improve flood conveyance and capacity.	\$862K	Project sets back existing levees to reconnect about 35 acres of floodplain area, including riparian plantings.	Completed.
32	2008	Cedar River Flood Damage Repairs	Erosion Control and Riparian Improvement	This project will repair damages from the 2006 flood at four sites on the Cedar River. These projects provide critical protection to SR-169, the Cedar River Trail, and two residential areas. All project repairs will be done using biotechnical bank stabilization techniques to provide long term stability and improve riparian conditions.	\$1.2M	Completed project will reduce erosion and scour of streambank. Riparian plantings will be used to biostabilize targeted sections of streambank.	Completed.
33	2008	Cedar River Repetitive Loss Mitigation	Riparian Improvement	This project will mitigate potential flood damage to a group of nine residential homes that have repeatedly experienced damage from flood events by either elevating the structures or acquiring and demolishing them.	\$5M	Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings. Removal of hazardous materials and waste from potential flood areas.	Some acquisitions and demolitions complete in 2008-2012. Ongoing in 2013.

Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
34	2008	Elliott Bridge Levee Setback and Acquisition	Riparian Improvement	Homes on the left bank of the Cedar River above and below the Elliott Bridge are subject to high velocity flows and channel migration hazards. This project will purchase properties at risk for flooding and channel migration hazards and setback the levee to improve conveyance capacity on the Cedar River in this reach.	\$4M	Removal of residential structures allows levee setback and restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings. Removal of hazardous materials and waste from potential flood areas.	Some acquisitions complete in 2008, 2009, and 2010. Acquired some properties in 2011. Ongoing acquisition in 2012. Working with WSDOT to develop restoration on the site as part of mitigation for SR 520 widening.
35	2010	Rainbow Bend Levee Setback & Floodplain Reconnect	Riparian Improvement	This project will set back or remove the levee to provide greater accommodation of flood conveyance that would lower flood waters and decrease flood velocities through the reach, thereby reducing or even eliminating future maintenance costs.	\$3M	Levee removal enables floodplain reconnection/restoration and associated improvement of riparian hydrology and WQ functions. Includes plantings.	Design and permitting underway. Limited areas of revegetation completed in 2011 and planned for 2012. Construction planned for 2013.
36	2008	Nursing Home Levee	Riparian Improvement	This project will rebuild the levee in a structurally stable manner and increase local flood conveyance capacity within this reach. This project will include reconstruction of the levee toe, installation of large woody debris structures, excavation of a mid-slope bench and toe buttress revegetated with live willow layers and native riparian trees and shrubs, and stabilization of the upper bank.	\$3M	Levee rehabilitation includes riparian plantings.	Completed.
36	2008	Nursing Home Levee	Riparian Improvement	This project will rebuild the levee in a structurally stable manner and increase local flood conveyance capacity within this reach. This project will include reconstruction of the levee toe, installation of large woody debris structures, excavation of a mid-slope bench and toe buttress revegetated with live willow layers and native riparian trees and shrubs, and stabilization of the upper bank.	\$3M	Levee rehabilitation includes riparian plantings.	Completed.

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37	2008	Sogale Levee #1	Riparian improvement	<del>Rehabilitate levees to reduce the risk of flooding in the Lower Green River.</del>	<del>\$100K</del>	<del>Levee rehabilitation includes riparian plantings.</del>	Canceled and rescoped under new project.
38	2008	Kent Shops-Narita	Riparian improvement	This project will repair the Kent Shops and Narita segments of the lower Green River levee system by setting back the levee while acquiring sufficient easement area for reconstruction of the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, excavate a mid-slope bench, and revegetate the toe buttress.	\$5.2M	Levee rehabilitation includes riparian plantings.	Completed.
39	2008	Myer's Golf Levee	Riparian improvement	This project will setback the Myer's Golf Levee segment of the lower Green River levee system while acquiring sufficient easement area for reconstruction of the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, excavate a mid-slope bench, and revegetate the toe buttress.	\$989K	Levee rehabilitation includes riparian plantings.	Completed.
40	2008	County line to A-Street Flood Conveyance	Riparian improvement	This project will acquire the remaining private property via fee simple or flood easement purchase to implement this levee modification. The project includes reconnecting the active channel to its left overbank floodplain by breaching the Union Pacific levee, allowing for improved flood flow conveyance into the existing floodplain area and for the restoration of river channel processes through the reach.	\$9M	Levee setback reconnects floodplain habitat; project includes riparian plantings, wood biorevetment and log structures.	In final design.
41	2010	White-Greenwater Acquisition	Riparian Improvement	<del>This project will acquire the property on the right bank of the White River at its confluence with the Greenwater River and remove at risk residential structures and concrete flood wall and restore the riverbank to a natural floodplain condition.</del>	<del>\$1M</del>	<del>Removal of structures allows levee setback and restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings. Removal of hazardous materials and waste from potential flood areas.</del>	Unable to acquire property. Project canceled.

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42	2009	Miller River Road Protection	Erosion Control	This project will supplement and extend the existing log crib that helps to direct flow toward the Miller River bridge, in order to reduce the risk of damage to the road from the river channel migrating across the alluvial fan.	\$111K	Reduces turbidity in Miller River.	Completed.
43	2009	Timber Lane Village Home Erosion Buyouts	Riparian Improvement	This project will purchase and remove the homes in this neighborhood which is subject to extreme erosion.	\$5.3M	Removal of residential structures allows riparian habitat in channel migration area. Removal of hazardous materials and waste from potential flood areas.	Most properties acquired in 2012. Additional acquisitions in 2013 or later.
44	2009	City of Snoqualmie Natural Area Acquisitions	Riparian Improvement	This project purchases a flood prone property and removes the structures to eliminate this repetitive loss property from the floodplain.	\$237K	Removal of residential structures allows restoration of floodplain habitat; includes riparian plantings. Removal of hazardous materials and waste from potential flood areas.	Completed.
45	2009	Middle Fork Levee System Capacity Improvements	Riparian improvement	This project will shorten or realign the downstream ends of the existing levee segments to improve the flow capacity along the river channel, in order to reduce the frequency and severity of flows leaving the Middle Fork Snoqualmie River channel and damaging homes and businesses.	\$5M	Project will increase floodplain connectivity and includes riparian plantings.	Pre-design in 2011. Early action projects completed.
46	2009	Lower Tolt River Acquisition	Acquisition	This project involves acquisition of floodplain acreage on the right bank of the Tolt River in the City of Carnation in order to prevent future development in and adjacent to the Tolt River's floodplain and channel migration hazard area. Involves several property owners.	\$1M	Preserves existing hydrology and water quality. Project acquires parcel that enables future levee setback.	Delayed pending willing seller.
47	2009	San Souci Neighborhood Buyout	Riparian Improvement	The project will remove all homes and a privately-assembled rubble levee at upstream end of the community access road.	\$5M	Removal of structures allows for habitat restoration in floodplain. Includes riparian plantings and site restoration. Removal of hazardous materials and waste from potential flood areas.	Acquisitions ongoing through 2014.

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No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
48	2009	Tolt River Mouth to SR 203 Floodplain Reconnection	Riparian improvement	This project will setback the existing levee within the Tolt River - John MacDonald Park to increase flood storage and conveyance.	\$701K	Project sets back levee and restores confluence area of the Tolt and Snoqualmie Rivers. Includes riparian plantings.	Completed
49	2009	Herzman Levee Setback & Floodplain Reconnection	Riparian improvement	The project will remove approximately 350 linear feet of the levee and set back another 190 linear feet in a manner that will reduce risk of flood damage to the levee on the opposite side of the river, as well as reconnect the river with its floodplain without increasing flood risks to the existing homes or Jones Road.	\$1.3M	Improves riparian hydrology and water quality functions. Includes riparian plantings.	Completed.
50	2009	Jan Road-Rutledge Johnson Levee Setbacks	Riparian improvement	This Project will either setback or remove the Jan Road and Rutledge-Johnson Levees in order to reduce potential damage to the downstream Cedar River Trail Levee, which protects portions of both the Cedar River Trail and the Maple Valley Highway. The project will be designed so as to ensure an equivalent level of flood protection remains for the houses behind the levees.	\$1.2M	Improves riparian hydrology and water quality functions. Includes riparian plantings.	Delayed pending Cedar Levee Setback Feasibility study.
51	2009	Briscoe Levee #1 #3, #5 #8	Riparian Improvement	This project will setback the Briscoe levee segments 1-3 and 5-8 as part of a larger reach length setback of the lower Green River levee system. The project will acquire sufficient easement area to reconstruct the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, excavate a mid-slope bench, and revegetate the toe buttress.	\$10M	Project will increase floodplain connectivity and includes riparian plantings.	Canceled and re-scoped under new project.
52	2009	Desimone Levee #1	Riparian Improvement	This project will reconstruct the Desimone Levee segment #1 by setting it back as part of a multi-segment setback of the lower Green River levee system. The project will acquire sufficient easement area to reconstruct the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, excavate a mid-slope bench, and revegetate the toe buttress.	\$1.1M	Project will increase floodplain connectivity and includes riparian plantings.	Canceled and re-scoped under new project.

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No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
53	2009	Desimone Levee #2	Riparian Improvement	This project will repair the Desimone Levee segment #2 by setting it back as part of a reach length setback of the lower Green River levee system. The project will acquire sufficient easement area to reconstruct the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, excavate a mid-slope bench, and revegetate the toe buttress.	\$1.4M	Project will increase floodplain connectivity and associated improvement in riparian hydrology and water quality. Includes riparian plantings.	Canceled and re-scoped under new project.
54	2009	Desimone Levee #3	Riparian Improvement	This project will repair the Desimone Levee segment #3 by setting it back as part of a reach length setback of the lower Green River levee system. The project will acquire sufficient easement area to reconstruct the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, excavate a mid-slope bench, and revegetate the toe buttress.	\$937K	Project will increase floodplain connectivity and associated improvement in riparian hydrology and water quality. Includes riparian plantings.	Canceled and re-scoped under new project.
55	2009	Desimone Levee #4	Riparian Improvement	This project will repair the Desimone Levee segment #4 by setting it back as part of a reach length setback of the lower Green River levee system. The project will acquire sufficient easement area to reconstruct the riverward levee slopes at a minimum angle of 2.5H:1V. This project will also reconstruct the levee toe, install of pieces of large wood, and excavate and revegetate a mid-slope bench/buttress.	\$4.5M	Project will increase floodplain connectivity and associated improvement in riparian hydrology and water quality. Includes riparian plantings.	Canceled and re-scoped under new project.
56	2009	Riverside Estates/Reddington	Riparian Improvement	This project will remove and reconstruct the Reddington Levee in a setback location adjacent to the Riverside Estates mobile home park, along the landward edge of the old side channel area. It will reconnect the old side channel habitat to the mainstem, reduce the flooding of mobile homes due to the existing malfunctioning flap gate/culvert system, and install a new, robust flood closure system with a backup closure device. Finally, the project will stabilize the channel edge and restore aquatic habitat complexity with large woody debris installations, and revegetate both the new levee slopes and the former levee footprint area with native riparian trees and shrubs.	\$3.1M	Project will increase floodplain connectivity and associated improvement in riparian hydrology and water quality. Includes riparian plantings.	Canceled and re-scoped under new project.

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57	2009	Segale Levee #2 & #3	Riparian Improvement	This project will stabilize the Segale Levee segment #2 and #3, setting it back as part of a larger reach length levee setback of the lower Green River levee system. The project would acquire a sufficient easement for reconstructing the levee slopes at a minimum angle of 2.5H:1V. The project would also construct a levee toe buttress using structures of large wood, excavate and stabilize a mid-slope bench/buttress, and stabilize the upper levee slopes.	\$6.2M	Project will increase floodplain connectivity and associated improvement in riparian hydrology and water quality. Includes riparian plantings.	Canceled and re-scoped under new project.
58	2009	Segale Levee #4	Riparian Improvement	This project will stabilize the Segale Levee segment #4, setting it back as part of a larger reach length levee setback of the lower Green River levee system. The project would acquire a sufficient easement for reconstructing the levee slopes at a minimum angle of 2.5H:1V. The project would also construct a levee toe buttress using structures of large wood, excavate and stabilize a mid-slope bench/buttress, and stabilize the upper levee slopes.	\$2.5M	Project will increase floodplain connectivity and associated improvement in riparian hydrology and water quality. Includes riparian plantings.	Canceled and re-scoped under new project.
59	2009	South Park Duwamish Backwater Trenton Storm Drain	WQ Improvement	The project will construct a pump station to alleviate flooding in Seattle's Duwamish industrial area that occurs during high tides when stormwater runoff is unable to drain to the Duwamish River.	\$4.5M	Pump station will provide for drainage of runoff during high tide events, reducing pollution associated with flooding in industrial area.	City of Seattle is undertaking project.
60	2009	Red Creek Acquisitions	Riparian Improvement	This project will purchase and remove approximately two or three at-risk residential homes two miles downstream of the Mud Mountain Dam, at the confluence of Red Creek and the White River.	\$579K	Removal of residential structures allows riparian habitat in channel migration area. Removal of hazardous materials and waste from potential flood areas.	Canceled due to lack of landowner willingness.
61	2010	Timber Lane Village Home Flood Buyouts	Riparian Improvement	This project will purchase the property and remove the homes in this neighborhood which is subject to extreme erosion.	\$1.1M	Removal of residential structures allows riparian habitat. Removal of hazardous materials and waste from potential flood areas.	Completed.
62	2010	McElhoe/Pers on Levee	Riparian Improvement	This project will remove or set back part of the levee and reconnect the floodplain with the river channel.	\$1.4M	Set back of levee will reconnect river to floodplain; includes riparian plantings.	Monitoring and maintenance.

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63	2017	Abandoned Bridge Abutment and Waring Revetment	Erosion Control and Riparian Improvement	This project will remove the channel constriction at the old bridge site and improve conveyance capacity.	\$121K	Reduces erosion and scour of streambank. Reconnects river to floodplain, allowing for improved riparian hydrology and WQ functions.	Start date 2017.
64	2015	Tolt River Natural Area Floodplain Acquisition	Riparian Improvement	This project will purchase two homes that are at risk from flood damages and reconfigure the downstream end of the Edenholm levee to improve flood conveyance.	\$7.1M	Removal of residential structures allows reconnection of floodplain and restoration of riparian hydrology and WQ functions. Removal of hazardous materials and waste from potential flood areas.	Start 2015.
65	2011	Lower Lions Club	Riparian Improvement	<del>This project will purchase and remove multiple flood-prone homes, including two properties classified as "repetitive loss."</del>	<del>\$1.5M</del>	<del>Removal of residential structures allows riparian habitat restoration and associated improvement in riparian hydrology and WQ functions. Removal of hazardous materials and waste from potential flood areas.</del>	Canceled
New Projects Added in 2009							
66	2009	Lower Boise Creek Channel Restoration	Riparian Improvement	Restore lowermost reach of channel and reestablish connection with floodplain.	\$600K	Improves riparian hydrology, hydrologic connectivity with floodplain, and water quality.	Monitoring and maintenance.
67	2010	Wallace Restoration	Riparian Improvement	Remove structure from floodplain and restore floodplain functions.	\$100K	Restores hydrologic processes in floodplain. Removal of hazardous materials and waste from potential flood areas.	Monitoring and maintenance.
68	2010	Piner Point Bulkhead Removal	Riparian Improvement and Buffer Restoration	Remove bulkhead and restore shoreline processes	\$100K	Restores hydrologic processes along shoreline	Monitoring and maintenance.

Tier 2 Structural Stormwater Control Projects							
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69	2009	South Fork Levee System Improvements	Riparian Improvement	This project will rebuild and strengthen selected portions of the existing levee system along the South Fork of the Skykomish River to improve performance and reduce the risk of failure.	\$7.3M	Levee rehabilitation includes riparian plantings.	See # 23.
70	2009	Pacific Right Bank Acquisition and Setback Berm	Riparian Improvement	This project will construct a setback berm along the perimeter of Pacific City Park, wetland and acquired private properties to provide protection from inundation of flood waters from the White River.	\$15M	Improvements will include riparian plantings.	In acquisition phase and pre-design.
71	2010	Lower Snoqualmie River Repetitive Loss Mitigation	Riparian Improvement	This project will relocate or elevate individual structures in the Lower Snoqualmie basin to eliminate the risk of damage during Snoqualmie River floods.	\$1.3M	Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions. Includes plantings.	Acquisitions ongoing. Match for FEMA grant funds in 2012.
72	2010	Dorre Don Meanders-Phase 1	Riparian Improvement	This proposal is to conduct a feasibility analysis to determine which action or suite of actions can be pursued to eliminate or otherwise reduce flood risks in the Dorre Don neighborhood. Depending on site-specific conditions and results on the feasibility analysis, options could include acquisitions homes, setback of existing levees, and reconnections of floodplain areas with the river to improve conveyance as well as restoring off-channel habitat.	\$240K	May result in reconnection of floodplain to river	Delayed pending Cedar Levee Setback Feasibility study.
73	2010	Rhode Levee Setback	Riparian Improvement	This project will setback the Rhode levee to provide greater accommodation of flood conveyance and stability of the levee.	\$2.4M	Levee rehabilitation includes riparian plantings.	Delayed pending Cedar Levee Setback Feasibility study.
74	2010	Reddington Extension	Riparian Improvement	This project will extend the Reddington Levee in a setback alignment from S 284 <sup>th</sup> Street (if extended) to S. 277th Street where no levee currently exists.	\$4M	Levee rehabilitation includes riparian plantings.	Re-scoped as part of Reddington Levee Setback
75	2010	Fremouw Buyout	Riparian Improvement	Buy and remove a repeatedly flooded home along Burns Creek.	\$400K	Impervious surface removed and replaced with riparian plantings. Removal of hazardous materials and waste from potential flood areas.	Closed December 2010.

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76	2010	Wilderness Rim Buyouts	Acquisition	Buy and remove 3 to 4 repeatedly flooded homes adjacent to a closed depression.	\$1.5M depends on grant funding	Impervious surface removed and replaced with vegetation. Removal of hazardous materials and waste from potential flood areas.	Acquisitions underway in 2011. Two completed in 2011; third and fourth to completed 2012.
77	2011	Tolt Pipeline Protection	Riparian Improvement	<del>This project will repair a 680 linear foot slump in the Snoqualmie 13.5 revetment.</del>	<del>\$3.0M</del>	<del>Revetment rehabilitation includes riparian plantings.</del>	See Project # 80.
78	2010	Bear Creek In-Stream Restoration	Riparian Improvement	This project will add woody debris and structure to a reach of Bear Creek and surrounding wetlands to improve floodplain reconnection and riparian function	\$150K	WQ functions of wetland adjacent to Bear Creek will be improved with better connection to channel	Monitoring and maintenance.
79	2010	Des Moines Creek Habitat Enhancement Phase 3	Riparian Improvement	Add channel complexity, improve floodplain connection with riparian wetland, and riparian planting/invasive species removal.	\$200K	Improve WQ functions of riparian wetland and other riparian areas	Monitoring and maintenance
80	2010	Snoqualmie 13.5 Revetment (Tolt Pipeline Protection)	Riparian Improvement	Stabilize riverbank using engineered bioengineering.	\$3M	Improve bank stabilization to reduce erosion and improve habitat	Project in initial planning phase.
81	2010	Farm/Flood Task Force Implementation	Riparian Improvement	This project provides technical and cost-sharing assistance to agricultural landowners in floodplains to help them better maintain their operations during and after flood events. Specific project actions include farm pads, elevations of barns and agricultural accessory dwellings, etc.	\$1MK	Potential source control benefits to improve water quality	Ongoing. Completed technical assistance and cost share on 20 farm pads preliminary design for two barn elevations.
82	2010	Lower Snoqualmie Resl Flood Mitigation	Riparian Improvement	Assist farmers in the lower Snoqualmie Valley to elevate homes and other structures above flood level.	\$2.6M	Potential source control benefits to improve water quality	Ongoing. Completed technical assistance and cost share on 20 farm pads; 3 home elevations.
83	2010	Cedar River Gravel Removal	Riparian Improvement	Periodic gravel removal from the lower Cedar River to maintain 100-year flood protection.	\$6M	Retain storage capacity within channel may reduce erosive flow	Design and permitting to begin in 2013

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84	<del>2010</del>	<del>Rhode Levee Setback</del>	<del>Riparian Improvement</del>	<del>Purchase homes along path of fastest, deepest flood flow and set back levee.</del>	<del>\$2.2M</del>	<del>Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions.</del>	See Project # 73.
85	2010	Herzman Repair	Riparian Improvement	Repair damage to the Levy from 2009 flood event.	\$450K	Restores hydrologic processes along shoreline	Completed.
86	2011	Cedar Pre-Construction Strategic Acquisition	Riparian Improvement	This project will acquire strategic real estate, upon which several large Flood District capital projects are dependent, namely the levee setback projects at the Maplewood, Rhode, Elliott Bridge, Lower Jones Rd, Herzman, Byers Road, Jan Road/Rutledge-Johnson.	\$9M	Allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions.	Ongoing.
87	2010	Cedar River Trail 2B	Riparian Improvement	This project will perform maintenance repairs on a section of King County revetment facility (formerly maintained by Burlington Northern) that was repaired in 2008, but then damaged again in the January 2009 flood event.	\$200K	Restores hydrologic processes along shoreline	Completed.
88	2010	Belmondo Revetment Repair	Riparian Improvement	Repair damage to the revetment from 2009 flood event.	\$1M	Restores hydrologic processes along shoreline	First phase of construction complete. Phase 2 permitting and construction in 2013.
89	2010	Briscoe Reach Planning	Riparian Improvement	The project will complete initial planning and alternatives analysis for the setback of several levee segments along the Green River.	\$1M	Setbacks required for levee stability will increase channel capacity and may reduce flow velocities	Expected completion 2013.
90	2010	Reddington Levee Setback Phase 1	Riparian Improvement	Remove and realign existing levee to increase floodplain capacity.	\$20 M	Increase capacity may reduce erosive flow	In design and acquisitions process. Construction planned for 2013.
91	2011	Horseshoe Bend Acquisition & Reconnection	Riparian Improvement	Acquire homes and remove levee to reconnect river to floodplain.	\$6M	Setbacks required for levee stability will increase channel capacity and may reduce flow velocities.	Started 2011; on hold while Kent completes project in same area.
92	<del>2011</del>	<del>Miller River Home Buyout</del>	<del>Riparian Improvement</del>	<del>Remove homes from hazard area.</del>	<del>\$600K</del>	<del>Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions.</del>	See Project #22

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92	2014	Miller River Home-Buyout	Riparian Improvement	Remove homes from hazard area.	\$600K	Removal of structures allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions.	See Project #22
93	2014	Lower Tolt River Acquisition	Riparian Improvement	Purchase floodway property to avoid damage in flood-prone area.	\$865K	Allows restoration of floodplain habitat and associated improvement of riparian hydrology and WQ functions.	See Project #46
94	2011	PL84-99 Mitigation	Riparian Improvement	State required acquisition, mitigation, and site remediation actions to mitigate for impacts of removing vegetation from levees in compliance with the US Army Corps of Engineers PL84-99 program.	\$1.3M	Improve WQ functions of riparian areas	Acquisition completed in 2011. Mitigation actions delayed until 2013.
<b>New Projects Added in 2011</b>							
95	2011	Dockton Heights Shoreline Restoration	Riparian Improvement/Wetland improvement	Remove shoreline bulkhead and fill to create salt marsh habitat and improve shoreline processes.	\$465K	Improve WQ functions of riparian, wetland and shoreline areas.	Design and Permitting in 2012.
96	2012	Upper Carlson Levee/Revetment Setback	Riparian Improvement	Remove levee/revetment and construct setback levee/revetment.	\$3 million	Improve WQ functions of riparian and wetland areas	Design in 2012
97	2012	Porter Levee Setback	Riparian Improvement	Remove levee/revetment and construct setback levee/revetment.	\$300K	Improve WQ functions of riparian and wetland areas	Design in 2012
98	2012	Cove Creek Estuary Enhancement	Wetland Improvement	Remove bulkhead and improve connection to inlet stream	\$450K	Improve WQ functions of riparian, wetland and shoreline areas.	Design in 2012
99	2011	Raabs Lagoon Riparian Improvements	Riparian Improvement	Revegetate shoreline of estuary/lagoon	\$57K	Improve WQ functions of riparian, wetland and shoreline areas.	Construction in 2012
100	2011	Middle Boise Creek Enhancement	Riparian Improvement	Improve channel conditions and riparian planting	\$320K	Improve WQ functions of riparian areas	Design/permitting in 2012, construction in 2013
101	2012	Elliot Bridge Restoration	Riparian Improvement	Set back levees and restore habitat on the Cedar Reach near Elliot Bridge	\$1.45 million	Improve WQ functions of riparian areas.	Feasibility in 2012
102	2012	Mouth of Taylor Creek Restoration	Acquisition/Riparian Improvement	Acquire/enhance ecologically sensitive property at mouth of Taylor Creek	\$150K	Improve WQ functions of riparian areas.	Feasibility in 2012
103	2012	Kanaskat Reach Restoration	Riparian Improvement	Demolish a structure, decommission a roadway and plant to restore riparian functions	\$220K	Improve WQ functions of riparian areas.	Design in 2012

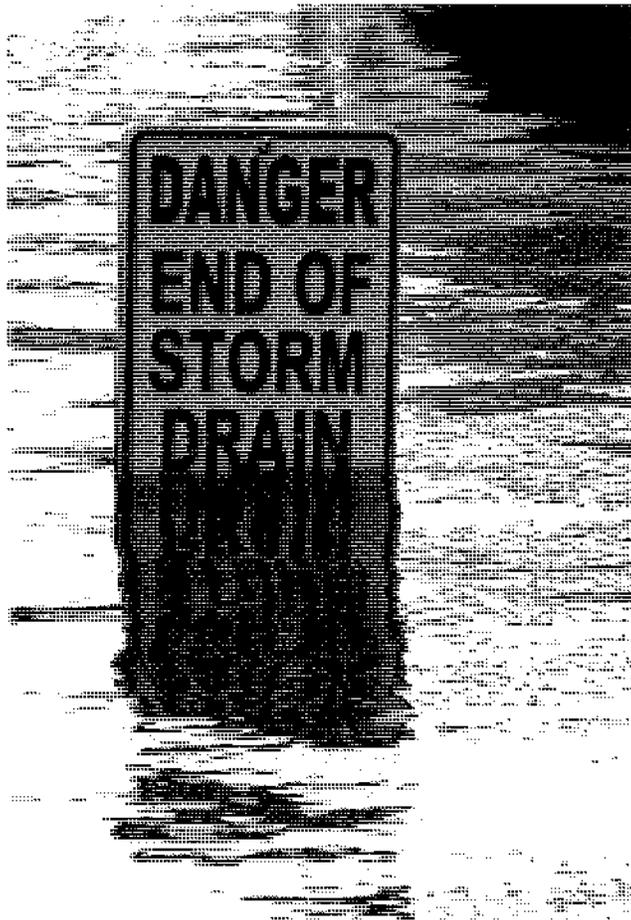
Tier 2 Structural Stormwater Control Projects							
No	Planned Start Year	Individual Project or Program of Projects	Stormwater Control Project Type	Description	Cost/Budget	Impact Reduction/Prevention Benefit to Waters of the State	Current Status
104	2011	Clough Creek Interim Sediment Removal	Riparian Improvement	Emergency planning and possible implementation of projects to lessen the impact of the flooding emergency. These projects could include sediment removal and ditch and driveway culvert upgrades.	\$104K	Riparian plantings will reduce stream temperatures.	To be completed in 2013.
105	2012	Briscoe Levee Setback	Riparian Improvement	Remove the existing Briscoe Levee and rebuild it back from the river channel.	\$25M	Improve WQ functions of riparian, wetland and shoreline areas.	Initial land acquisition in 2012; project may be re-scoped due to concerns by local agency.

**Appendix 3 -  
WLRD Stormwater Emergency Response  
Protocols**

Water and Land Resources Division

**STORMWATER EMERGENCY RESPONSE PROTOCOLS**  
Policies, Procedures and Responsibilities

October 15, 2012



**King County**

## STORMWATER EMERGENCY RESPONSE PROTOCOLS Policies, Procedures, and Responsibilities

"The first casualty in any disaster is the emergency action plan."  
- Lt. Gen. Russel Honore' (Ret.)

This document describes the policies, procedures, roles, and responsibilities for the Water and Land Resources Division (WLRD) response to non-river related stormwater emergencies in unincorporated King County. Its purpose is to help managers allocate resources to address stormwater and water quality problems/situations in the field, and identify which problems/situations should be referred to other agencies, and, if so, which agencies should be notified.

As you read this document, if you need help determining what an acronym means, their definitions are listed in Appendix E.

*Stormwater emergencies* are defined as urgent situations/problems in which flooding, erosion, or pollution in or along the stormwater drainage system is causing or imminently threatens to cause a severe hazard to public safety, public health or aquatic life. These emergencies are defined in King County Code Chapter 12.51 and the Revised Code of Washington 39.04.280. The stormwater drainage system includes both natural and manmade features that convey, store, infiltrate, or otherwise manage stormwater runoff prior to discharge to the County's major rivers (i.e., Snoqualmie River, Skykomish River, Cedar River, Green River, White River, Sammamish River, Tolt River, Raging River) and to the County's major receiving waters (i.e., Lake Washington, Lake Sammamish, and Puget Sound).

In response to stormwater emergencies, WLRD's Stormwater Services (SWS) provides the following services:

- Assessment of reported problems,
- Referral of reported problems to appropriate agencies,
- Technical assistance/advice to citizens, property owners, and other agencies,
- Inspection/maintenance of WLRD-owned stormwater facilities,
- Enforcement actions to stop violating activities and correct violations, and
- Implementations of emergency actions or measures to contain, remediate, or reduce severe flooding, erosion, or pollution.

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### Role Assignments

The following assignments are made for purposes of stormwater emergency response:

#### Stormwater Manager

The Stormwater Manager role is to be a liaison between the Section and upper management.

The Stormwater Manager does not manage the details of the response; however the role will oversee and consult on matters those more intimately involved with the event may not anticipate or recognize.

If the Stormwater Manager is not available, the SER Director (see below) will fill in for him until s/he is available.

#### Stormwater Emergency Response (SER)

**Director** – The SER Director role is currently assigned to the SWS Drainage Investigation and Facility Maintenance Unit (DIFM) supervisor. See Appendix A for a current list of key staff. The assignment carries with it the following general responsibilities:

- Oversee WLRD's stormwater emergency response function.
- Update dam safety plans annually and notify downstream residents and businesses.
- Coordinate the stormwater emergency response function with other County emergency response functions.

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- Recruit and organize staff for stormwater emergency response.
- Identify and arrange staff training.
- Recruit Stormwater Emergency Response (SER) Leads to act on behalf of the SER Director during times of emergency response that occur after normal business hours or when the SER Director is not on emergency response duty.
- Act on behalf of the Stormwater Manager when the Manager is not available and/or cannot be reached. Efforts to contact the Stormwater Manager will be made every three hours until contact is established.

In addition to the above general responsibilities, the SER Director has the following more specific responsibilities during times of emergency response unless otherwise assigned to a SER Lead or covered by the Water Quality Unit Manager:

- Act as WLRD's event manager during stormwater emergencies.
- Review incoming emergency reports and complaints and assign staff as needed to respond.
- Coordinate stormwater emergency response as applicable with Roads, all SWS units, the Flood Warning Center, the King County Office of Emergency Management, and any other agency involved in the emergency event.
- Respond to questions from staff conducting emergency response activities.
- Make decisions on how to address problems/situations encountered by WLRD staff conducting emergency investigation activities in the field.
- For problems/situations impacting or caused by WLRD-maintained drainage facilities, make decisions on emergency maintenance actions costing up to \$15,000 for any one facility and up to a total of \$45,000 for multiple facilities during a single event. For emergency actions anticipated to exceed these limits, obtain approval from the SWS Manager. If SWS Manager is unavailable, approval may be obtained from the WLRD Director.

- For problems/situations impacting non-WLRD-owned County property, decide who to contact for response.
- For problems/situations impacting private property, off-road public safety, or aquatic life/habitat, make decisions on whether capital-funded emergency measures should be considered based on the following factors, and if so, refer to the Emergency Capital Improvements (ECI) Manager for further assessment:
  - Presence or imminent threat of private-property "severe flooding" per the 2009 Surface Water Design Manual (SWDM), Chapter 1, Key Terms and Definitions.
  - Presence or imminent threat of private-property "severe erosion" per the 2009 SWDM, Chapter 1, Key Terms and Definitions.
  - Presence or imminent threat of a severe hazard to off-road public safety (i.e., off-County-maintained road right-of-way).
  - Presence or imminent threat of severe impact to aquatic life or habitat.
- Maintain a log of stormwater emergency problems/situations being investigated by WLRD staff and those referred to the ECI Manager for assessment and possible implementation of emergency measures.
- Monitor deployment of staff and account for all deployed staff when handing off the above responsibilities or ceasing operations during times of emergency response.
- Keep the SWS Engineering Services Section Manager apprised of all activities.

**Stormwater Emergency Response (SER)**

**Lead** – The SER Lead role is currently assigned by the SER Director to qualified staff Engineers on a monthly rotation. Each staff serves as SER Lead for a specific month beginning on the Monday of the first full week of that month. SER Leads are not on-call but the first person listed on the SER Lead schedule should be aware that if a storm is expected, they will be the first to be called. The role of the SER Lead is to act on behalf of the SER Director during times of emergency response that occur after normal business hours or when the SER Director is not on emergency response duty during normal business hours. See page 5 for more details on the duties and authorities of the SER Lead.

**Stormwater Emergency Water Quality (SEWQ) Manager** – This role is currently assigned to the SWS Water Quality Compliance Unit manager. See Appendix A for a current list of key staff. This assignment carries with it the following responsibilities:

- Act as WLRD's point of contact for water quality emergencies that the SER Director or on-duty SER Lead has determined would be best addressed by staff with water quality expertise. These problems/situations are usually referred to the SEWQ Manager by the SER Director (or on-duty SER Lead) or can come from other sources (e.g., Roads Maintenance Division or in the course of doing field work).
- Coordinate water quality emergency response as applicable with Roads, SWS staff, the Flood Warning Center, the Office of Emergency Management, and any other agency or jurisdiction involved in the emergency.
- Investigate or assign staff to investigate referred water quality emergencies.
- Make recommendations to the SER Director, on-duty SER Lead, and/or SWS Manager on how to address emergency water quality problems.
- Coordinate with SER Director on providing needed training to field staff.

**Emergency Capital Improvements (ECI) Manager** – The ECI Manager role is currently assigned to the SWS Capital Services Unit (CSU) manager. See Appendix A for a current list of key staff. This assignment carries with it the following responsibilities during stormwater emergencies:

- Act as WLRD's point of contact for assessment and implementation of capital-funded emergency measures that may be needed to address problems/situations severely impacting private property, public safety outside King County right-of-way, or aquatic life/habitat. These problems/situations are usually referred to the ECI Manager by the SER Director (or on-duty SER Lead) or can come from other sources (e.g., Roads Maintenance Division) or in the course of doing field work.
- Assign staff as needed to perform engineering assessments to inform

decisions by the ECI Manager on whether to implement capital-funded emergency measures.

- Notify the ECI Lead to provide office and logistics support to the engineering assessment of problems/situations.
- Make decisions on whether to implement capital-funded emergency measures costing up to \$10,000 per problem and/or up to \$60,000 total for the event. For capital-funded emergency measures anticipated to exceed these limits, obtain approval from the SWS Manager. If the SWS Manager is unavailable, the WLRD Director may approve. Decisions on whether to implement capital-funded measures shall consider the following factors:
  - Presence or imminent threat of private property "severe flooding" per the 2009 SWDM, Chapter 1, Key Terms and Definitions.
  - Presence or imminent threat of private property "severe erosion" per the 2009 SWDM, Chapter 1, Key Terms and Definitions.
  - Presence or imminent threat of severe hazard to off-road public safety (i.e., off-County-maintained road right-of-way).
  - Presence or imminent threat of severe impact to aquatic life or habitat.
  - Potential for success in addressing problem/situation.
  - Cost effectiveness of measures (e.g., cost vs. number of properties affected).
- Assign staff to implement capital-funded emergency measures and notify the ECI Lead if not already involved to provide logistics support and tracking of implementation.
- Coordinate ECI activities with Roads and SWS staff, the Flood Warning Center, the King County Office of Emergency Management, or any other agency involved with or affected by problems/situations being assessed/addressed.

**Emergency Capital Improvements (ECI) Lead** – The ECI Lead role is currently assigned to the SWS Capital Services Unit, Opportunity and Emergency program lead. See Appendix A for a current list of key staff. This assignment carries

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with it the following responsibilities during stormwater emergencies:

- Act as WLRD's point of contact for implementation of specific capital-funded emergency measures approved by the ECI Manager.
- Perform the ECI Manager's role when assigned to do so by the ECI Manager or when the ECI Manager is not available.
- Provide office and logistics support to the assessment of problems/situations to inform decisions by the ECI Manager on whether to implement emergency measures. This includes but is not limited to the following:
  - Estimating needs and costs for construction labor, equipment, and supplies.
  - Determining necessary permits or permissions from permitting agencies.
  - Determining necessary easements or property owner permissions.
  - Arranging for collection of necessary maps, property information and other information from the office.
- Provide logistics support for the implementation of capital-funded emergency measures. This includes but is not limited to the following:
  - Arrange for necessary construction labor, equipment, and supplies.
  - Obtain necessary permits or permissions from permitting agencies.
  - Obtain necessary easements or property owner permissions.
- Track ECI assessment and implementation activities, including capital expenditures and use of resources. Report status to the ECI Manager and SER Director or on-duty SER Lead.

- **Staff Call-Out Schedule**

The SER Director will prepare and distribute a call-out schedule titled the **WLRD After Hours Stormwater Emergency Contact**, which assigns a SWS staff engineer as the primary SER Lead for each calendar month and lists other engineers as backups. The SER Lead will be the first point of contact for WLRD during

stormwater emergencies after normal business hours and during normal business hours when the SER Director is not on duty. Usually, the first contact will come from the Road Services Division 24-hour phone operator, who is typically the first to hear about a problem. If the primary SER Lead person is unavailable, the next person on the list of staff engineer's will be called until an available person is reached. That person will then be the SER Lead for the emergency event or problem until relieved by the SER Director or another SER Lead.

If the problem is a water quality emergency, the SER Director or on-duty SER Lead may ask the Water Quality Manager to respond. Until such time as the Water Quality Manager or her/his assigned representative accepts responsibility for response to the water quality emergency, the SER Director or on-duty SER Lead will retain this responsibility.

The SER Director will ensure that the Road Services Division has the latest **WLRD After Hours Stormwater Emergency Contact** list so they will always know who to contact in a stormwater emergency.

The SER Director will also prepare and distribute the **WLRD Stormwater Emergency Response Volunteer Callout List**, which is a monthly assignment of other SWS staff that perform the following duties:

- Staff the drainage information/complaint line (296-1900) during emergency events or after hours;
- Investigate reported flooding/erosion problems during emergency events or after hours;
- Investigate reported stormwater facility problems during emergency events or after hours;
- Investigate reported water quality problems during emergency events or after hours;
- Perform engineering assessments of problems during emergency events or after hours that impact private property, off-road public safety, or aquatic life/habitat to determine whether to implement capital-funded emergency measures.
- Provide engineering support necessary to implement emergency maintenance actions or capital-funded emergency measures.

## Event Scenarios

Stormwater emergency response generally occurs in one of three scenarios:

- 1) A **single incident** deemed to be an emergency.
- 2) Multiple emergency incidents **occurring during extreme weather**.
- 3) An earthquake event of 5.5 or more on the Richter scale centered within 30 miles of King County.

Appendix B is a flowchart of SWS emergency response during the above events.

## Staff Shifts

In a **single event**, the SER Director, SER Lead, Water Quality Manager, or ECI Manager/ECI Lead, as applicable, will likely be on duty for the duration of the event since they normally only last a few hours. If the event begins during normal working hours but is not resolved by the end of the day, the event SER Lead will remain on duty until the event is over or s/he is relieved by another SER Lead.

During an **extreme event**, which can last for several days and have multiple incidents, the shift hours are flexible and will be adjusted to meet both the emergency response needs of WLRD and the personal needs of response staff. Typically, a shift will last no longer than 12 hours. However, if an event starts late in the day on a work day or coincides with a river flooding event that draws in some of the same staff, shifts can end up being much longer. Therefore, the SER Director, on-duty SER Lead, Water Quality Manager, and/or the ECI Manager/ECI Lead, as applicable, must track and coordinate the use of staff with their

supervisors and the WLRD Flood Warning Center to ensure that individual staff shifts do not exceed 24 hours on the first call-out after which there must be a minimum of 8 hours off before the next shift. Subsequent shifts must not exceed 16 hours and there must be a minimum of 8 hours off after any subsequent shift that is 8 to 16 hours long. For subsequent shifts less than 8 hours long, no more than 16 hours shall be worked within any 24-hour period. The above cycle of shift limits starts over for any staff person that has been off at least 48 hours.

When it is anticipated that multiple shifts will be required, the SER Director, on-duty SER Lead, Water Quality Manager, and/or ECI Manager/ECI Lead, as applicable, will arrange for relief personnel but may delegate, to other available staff, the arranging of relief so s/he can continue to respond to emergencies. During the week, the day shift personnel will take over at their normal start time. Staff may be asked to stay on if there is a need for extra personnel but should be released after 12 hours whenever possible and must not work more than allowed by the above shift limits. On weekends, alternates will be called in to relieve on-duty staff. The SER Lead will normally be relieved by the following month's assigned SER Lead. Typically, these two will rotate the SER Lead responsibility for a particular event but another lead may be called in to cover if one is unavailable. The Water Quality Manager and ECI Manager/ECI Lead will similarly rotate with their assigned back-ups.

If staff resources become stretched so thin that shift limits are in danger of being exceeded, the SWS Manager will ask other trained staff within SWS to support the ongoing emergency. During an emergency, overtime may be mandated.

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## Stormwater Emergency Response (SER) Lead Duties and Authorities

The SER Lead should expect to be called during a single event scenario that occurs after business hours. The SER Lead can either directly respond to the problem or call-out appropriate emergency response staff. Very often, Roads Maintenance staff will have already been called out and will contact the SER Lead if they determine support is needed from WLRD. The SER Lead may call in

support from the **Stormwater Emergency Response Volunteer Callout List** if needed. If SWS staff members are the first to respond, Roads Maintenance staff members are available to be called out if needed to implement emergency measures.

If an event begins during normal business hours, the SER Director provides emergency response supervision unless delegated to the SER Lead. If not already delegated, the SER Lead will take over emergency response

supervision at the end of normal business hours if it has been determined that a long duration, large event is occurring. If a large storm occurs on a weekend, the SER Lead will check the complaint line (206 296-1900, see Appendix C - *Complaint Line Message Retrieval Instructions*) and contact the Road Services Division 24-hour line (206 296-8100) to determine if a significant number of stormwater and flooding complaints are being received. If it appears the complaint line should be staffed and field staff is needed to investigate problems, the SER Lead will contact staff on the **Stormwater Emergency Response Volunteer Callout List** and notify them to report.

The SER Lead will use the flowchart in Appendix B to determine agency responsibility for a given situation occurring in each scenario. While all potential problems or emergency situations cannot be anticipated, the flowchart will help provide direction in how to determine a response. The SER Lead is expected to use her/his best judgement in how to respond to each specific situation as it occurs.

For a situation or problem that poses severe and imminent harm to private property, off-road public safety, or aquatic life/habitat but is not the County's responsibility to address, the SER Lead will refer the problem/situation to the ECI Manager (or assigned backup if the ECI Manager is not available) for assessment and possible implementation of capital-funded emergency measures. The SER Lead will continue to track the disposition of problems/situations referred to the ECI Manager. For situations or problems that pose harm to or are caused by WLRD facilities operated by SWS, the SER Lead may authorize the expenditure of up to \$15,000 in maintenance funds to implement emergency repairs or measures at any one facility and up to a total of \$45,000 for multiple facilities. Additional expenditures will require approval from the SWS Manager.

For a water quality problem or situation occurring after normal business hours, the SER Lead will decide whether water quality expertise is needed to oversee response to the problem/situation. If water quality expertise is needed, the SER Lead will contact the SEWQ Manager or their backup to take over supervision of water quality emergency response. If water quality expertise is not required, the SER Lead will oversee these

activities in accordance with the Water Quality Emergency Response Protocol on page 7.

### **Information Line Staff Duties**

Staff assigned to answer the drainage information/complaint line (206-296-1900) during stormwater emergencies will receive information from the public and other agencies, refer problems to the stormwater complaint response staff, the facility complaint response staff or other agencies, and respond to inquiries. They will assist with complaint log-in, research, and data entry. Staff will be given as much notification as possible when an event is expected. The information line staff will be in the SWS office when on duty.

### **Emergency Complaint Response Staff Duties**

Staff assigned to investigate reported flooding/erosion problems such as flooding, of homes, businesses, fields, or yards; landslides; slope instabilities; erosion; and other storm-related problems. Drainage complaint response staff will investigate these situations in the field during their shift. They will report their findings to the SER Director or on-duty SER Lead and help make decisions on how to respond to the problems.

### **Emergency Facility Complaint Response Staff Duties**

Staff assigned to investigate reported problems with WLRD flow control or water quality treatment facilities will visit the facility and determine what can be done to address the problem. The staff will likely work directly with Roads Maintenance staff to correct or mitigate the problem as authorized by the SER Director or on-duty SER Lead. Often temporary solutions will have to be applied. The facility emergency response staff will contact the SER Director or on-duty SER Lead and keep him/her updated on problems being dealt with. The SER Director or on-duty SER Lead will provide advice and approval for corrective actions when needed. Staff assigned to this activity may be on-site alone or with Roads Maintenance support staff.

### **Emergency Capital Improvements Response Staff Duties**

Staff assigned by the ECI Manager or her/his backup to perform engineering assessments

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of problems/situations impacting private property, off-road public safety, or aquatic life/habitat will be assessing problems such as off-road-right-of-way flooding, landslides, slope instabilities, erosion, and other storm-related problems. The purpose of these assessments is to collect field information necessary to inform decisions by the ECI Manager on whether to implement capital-funded emergency measures using the decision-making criteria on page 3. The ECI Lead assists with these assessments by providing necessary office information and engineering/logistical support. Staff performing these assessments may be the same emergency complaint response staff dispatched by the SER Director or on-duty SER Lead or may be separately dispatched by the ECI Manager or backup depending on the expertise needed for the problem/situation. The ECI Manager or backup will make this decision.

Staff assigned to make engineering assessments will report their findings to the ECI Manager or backup. If the ECI Manager or backup decides to implement capital-funded emergency measures, s/he may direct these staff to oversee implementation or assign different staff or additional staff depending on the expertise needed for the work. If the ECI Manager or backup decides not to implement measures, s/he will report that back to the SER Director or on-duty SER Lead and may ask staff to communicate the decision to affected parties.

Staff assigned to oversee implementation of capital-funded emergency measures will provide direction to work crews and report progress to the ECI Lead. The ECI Lead assists with implementation by arranging for work crews, permits, access, and any other resources needed.

### **Emergency Water Quality Response Protocol**

During normal business hours, the SEWQ Manager or her/his backup will oversee and coordinate response to water quality problems/situations. Water quality emergency response staff will investigate and report findings to the SEWQ Manager. The SEWQ Manager will make decisions about the appropriate level of response using WLR's Spill Response Plan found in Appendix H. The critical drivers for SEWQ decisions are

staff and public safety, and environmental protection.

After hours, the SER Lead handles the responsibility of water quality emergency response unless handed off to the SEWQ Manager or her/his backup. The following is an informational summary of the Spill Response Plan.

In many cases, the water quality emergency will be a single incident event such as a spill that threatens to enter or has entered the stormwater drainage system or natural water bodies. If it appears to be a life-threatening spill, remove yourself and call 9-1-1. For both life-threatening and significant spills (too large for one person to clean up) on public or private properties, the SER/SEWQ will contact the Washington Department of Ecology spill response team at 425-649-7000.

The SER/SEWQ will contact appropriate County agencies when events occur on County properties. KC Roads may be able to contain and clean up spills on County properties. Common events include spills occurring on County Road Right-of-Way. Road Services Division will be contacted to visit the location and determine what response is necessary. Wastewater Treatment Division or the Health Department should be notified for sewage spills. Sediment discharges from permitted construction sites will be documented and reported to King County's Department of Permitting. Under certain conditions, the SER/SEWQ will call the on-call Hazardous Materials Response contractor listed in Appendix D.

On site staff will collect the "need to know" details as found in the Spill Response Plan on any spill, release, or water quality emergency. Include photographs, names and addresses of the responsible party(s) for possible enforcement follow up and cost recovery. Sampling will be conducted under the direction of the SER/SEWQ.

If the spill is non-significant or non life threatening and is located on private property, staff will inform the private property owner that the owner is responsible for preventing contaminants from entering King County's stormwater conveyance system or natural water bodies. A list of private spill contractors is found in the Water Quality Spill Response Plan, Appendix H. Staff may provide this list to private property owners and must clarify that King County does not endorse or

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recommend any company on the list. Field staff should make no comment about King County's ability or responsibility to clean up spills on private property. A King County field person *may voluntarily choose* to help contain and/or clean up incidental spills on private property only if properly trained and equipped to do so, following spill cleanup procedures per the Spill Response Plan. For King County properties, a King County field person will contain and/or clean up incidental spills only if properly trained and equipped to do so, following spill cleanup procedures per the Spill Response Plan.

### **Safety Instructions for Field Emergency Response Staff**

Field emergency response staff is expected to maintain frequent contact with the SER Director, on-duty SER Lead, Water Quality Manager, or ECI Manager/ECI Lead, as applicable, for safety.

Staff dispatched by the SER Director or on-duty SER Lead, will attempt to stay in contact with them through the 1900 number. Staff is expected to report their current location, expected time at the location, and where they expect to go upon leaving their current location.

Field emergency response staff safety is more important than dealing with flooding or water quality problems. The SER Director or SER Lead will be managing multiple issues, so it is important that field staff take it upon themselves to report their location to the office. If there appears to be a life-threatening situation, staff should **call 9-1-1**. Staff is required to operate in a safe manner and not put themselves and/or others at risk. Staff may refuse an assignment, if they feel it poses a hazard to their life, health, or safety.

### **Dam Safety**

SWS is responsible for maintaining and operating dams meeting the Department of Ecology's dam safety requirements. The SER Director maintains the current inventory of SWS dams, listed here in Appendix F. Several of these dams have emergency action plans that are updated annually with evacuation measures for at-risk homes and businesses downstream. In an extreme weather event, these dams will be monitored to the extent possible, based on the availability of staff, to ascertain their condition and implement dam breach procedures if

necessary. The emergency action plans for Hazard Class 1 dams are located with the SER Lead.

Note: during extreme rain events, dams are more susceptible to failure because there is the possibility of saturated soil and high water behind the dam.

### **Earthquake Response**

The SER Director will determine whether or not SWS will respond to an earthquake based on the best available information on magnitude, location, and impacts from a variety of sources, such as calls to the 1900 number, internet sites, news reports and from the King County Emergency Operations Center.

The SER Director may contact SWS field emergency response staff, either by telephone or radio. SWS Drainage Investigators have trucks equipped with 800 MHz radios and work in assigned geographic areas. The first priority of SWS field staff is to make sure their family is safe. Once that is established, the SER Lead may direct the field staff to inspect Hazard Class 1 stormwater facilities (rating of greatest risk of damage due to failure) or to inspect other public structures or facilities. SWS field staff do not self deploy to inspect facilities.

The highest priority of SWS field staff is personal safety. They should not attempt to inspect anything if their own safety cannot be assured. Road and bridge damage may make transportation unsafe.

SWS field staff will make themselves available for higher priority problems if needs are identified by the SER Lead. Hazard Class 1 dams are not prone to failure in earthquake events. Life, health, and other infrastructure emergencies may take precedence to Hazard Class 1 Stormwater facility inspection.

Factors that affect the Drainage Investigators ability to inspect drainage facilities include: weather, road and bridge conditions. The amount of water held by the Hazard Class 1 stormwater facilities and the potential impact to public safety affects the urgency of these inspections. Stormwater facility inspection may not be possible in time to notify residents in the inundation zones and communication may be impossible. For these reasons, the WLRD Director writes to residents in the inundation zones of Hazard Class 1 stormwater facilities informing them of their personal responsibilities during such events.

**Additional Information**

**Emergency Reference Sheet**

Appendix D is a list of other emergency response agencies and their contact information.

**800 MHz Radios**

SWS has two 800 MHz radios available in the office to assist with communications, located with the SER Director and SER Lead. Most of the Drainage Investigators vehicles are equipped with 800 MHz radios.

**Sandbag Requests**

Sandbag Distribution Information for King County:

Property owners living in flood hazard areas are responsible for obtaining sandbags, sand, and other flood-fighting materials to protect their property during flood incidents. Property owners are responsible for filling and placing sandbags, cleaning up sandbags after the flood incident, and meeting any other regulations related to sandbagging activity. King County may provide sand and sandbags for private property owners during flood emergencies to the extent that resources are available.

More information on sandbag distribution can be found at:

<http://www.kingcounty.gov/environment/waterandland/flooding/sandbag-distribution.aspx>

**What if Roads Maintenance Can't Respond to the Emergency?**

SWS has an on-call contract for maintenance and emergency response with Gary Merlino Construction Company. They may be used if Roads is unable or declines to do emergency response work. Contact the CSU Construction Manager to access this contract.

**Federal Emergency Management Agency (FEMA)**

When the event is large enough to qualify for federal disaster relief funding, Stormwater Services staff will document the damages and personnel costs. Since we don't find out the need for this documentation until we have expended a fair amount of resources, the form in Appendix G is provided to track activities on multiple emergency incidents that happen during extreme weather or earthquakes.

Current FEMA program information and forms can be found at [www.fema.org](http://www.fema.org).



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### Appendix A - Key Staff

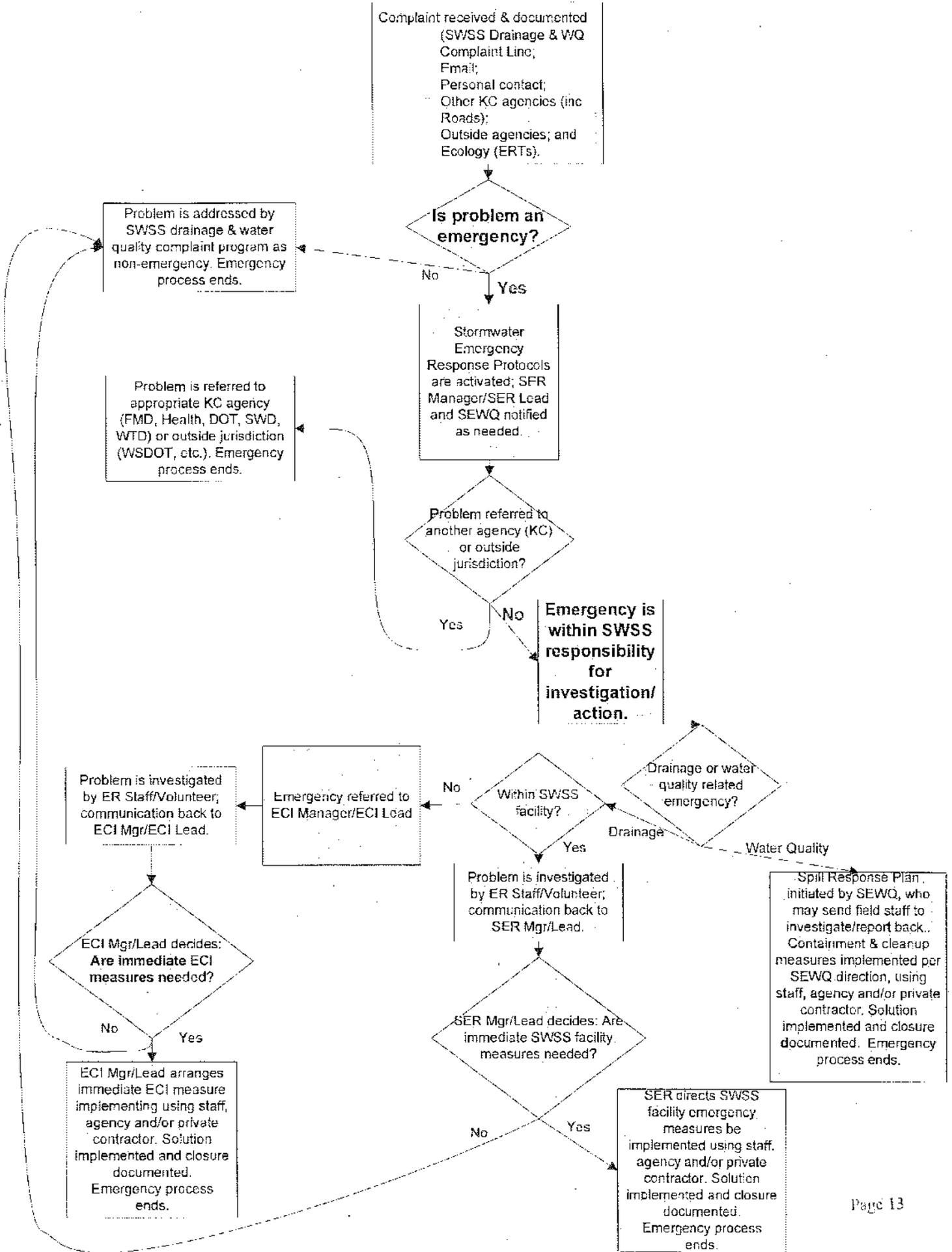
	Office	Cell	Home
<b>Stormwater Manager</b>			
Curt Crawford, Engineering Services Section Manager	206-296-8329	206-910-2685	425-868-5700
<b>Stormwater Emergency Response Director (SER)</b>			
Ken Krank, Supervising Engineer	206-296-8172	206-499-2569	206-935-4082
Back up – Dave Hancock, Senior Engineer	206-296-8230	206-427-5261	206-232-1559
<b>Stormwater Emergency Response Leads (SER Lead)</b>			
Dave Hancock, Senior Engineer	206-296-8230	206-427-5261	206-232-1559
Ken Krank, Supervising Engineer	206-296-8172	206-499-2569	206-935-4082
Brian Sleight, Supervising Engineer	206-296-8025	206-291-4768	206-242-6305
Alex Jones, Engineer II	206-263-6457	206-388-7710	
<b>Emergency Capital Improvements Manager (ECI Manager)</b>			
Don Althausser, Managing Engineer	206-296-8371	206-423-2327	206-433-1771
Back Up – Rachael Berryessa, Senior Engineer	206-296-8306	206-371-0337	206-706-0561
Back Up – Wes Chin, Supervising Engineer	206-205-5574	206-423-1061	425-269-9752
<b>Emergency Capital Improvements Lead (ECI Lead)</b>			
Rachael Berryessa, Senior Engineer	206-296-8306	206-371-0337	206-706-0561
Back Up – Wes Chin, Supervising Engineer	206-205-5574	206-423-1061	425-269-9752
<b>Capital Services Unit Construction Manager</b>			
Wes Chin, Supervising Engineer	206-205-5574	206-423-1061	425-269-9752
<b>Stormwater Emergency Water Quality Manager (SEWQ Manager)</b>			
Doug Navetski, Supervising Engineer	206-296-8311	206-255-6947 (t)	425-369-0323
Back up – Cynthia Hickey, Senior Engineer	206-263-6456	206-722-9691	206-601-2654
<b>King County Stormwater Facilities Maintenance Manager</b>			
Ken Krank, Supervising Engineer	206-296-8172	206-499-2569	206-935-4082
<b>Regional Storm Facility Maintenance Manager</b>			
Ken Krank, Supervising Engineer	206-296-8172	206-499-2569	206-935-4082
<b>WLRD Safety and Emergency Response Manager</b>			
Rebecca Marcy, Project/Program Manager	206-296-8006	425-283-8457 (t)	425-868-6569

**(t) = text capable**

Staff listed on this page have a copy of the SWS Emergency Response Protocols along with the WLRD Division Director and WLRD Assistant Director.

For internal use only during emergencies. Home phone numbers are confidential.  
Contact Rebecca Marcy at (206) 296-8006 to make changes.

# Appendix B Stormwater Emergency Response Flow Chart



## **Appendix C - Complaint Line Message Retrieval Instructions**

From outside of the office

Dial 296-0400

Mailbox is 6-1900

Current Password must be obtained from the Drainage Investigation and Facilities Maintenance Engineering Technician II or Senior staff

**Appendix D - Emergency Agency Numbers – Home Phone Numbers are Confidential**

Updated 6/12/12

**King County Emergency Coordination Center**

(Primary ECC for WTD)  
3511 NE 2<sup>nd</sup> St., Renton, WA 98056  
(206) 296-3830 (24-hrs)  
(206) 995-0022 duty Officer pgr  
(206)-205-4056 FAX  
800MHZ Radio-ECC.COM  
Flood Control Center  
(Located at King Street Center)  
(206) 293-4535 (only staffed during flood activations)

**KC-Risk Management**

**Jennifer Hills – KC Risk Manager**  
Work: (206) 205-1649  
Home: (425) 204-9556  
Cell: (425) 785-1060

**Christina Oh – KC Deputy Risk Manager**

Work: (206) 263-2235  
Home: (425) 359-5096  
Cell: (206) 437-0680

**City of Seattle Emergency Operations Center**

(Secondary EOC for events involving only Seattle)  
2320 Fourth Ave.  
(206) 233-5076 – during activations. Other times call (206) 233-5147 and ask for EM Duty Officer

**Seattle Parks**

(206) 467-3005 (24 hr emergency number)  
**Department of Health**  
(206) 296-4606 (24/7) Duty Officer

**WA Department of Health**

Office: (360) 236-3330  
(360) 786-4183 – 24 hour pager

**WA Department of Ecology**

**Report Tracker:**  
1. (425) 649-7229 (24-hrs)  
2. (425) 649-7000 (24-hr)  
3. (800) 258-5990

**WA Dept. of Labor & Industries**

800-423-7233 Hotline for serious accidents  
(Report fatalities of 2 or more employees hospitalized within 8 hrs.)

**WA Emergency Management Div.**

800-258-5990 (report chemical releases ASAP)

**Media Relations**

**Annie Kolb-Nelson :**  
**WTD Media Spokesperson**  
Work: (206) 263-6157  
Home: (253) 761-5566  
Cell: (206) 423-8638 DC: 342\*6216  
Alpha pgr: 2064692514@cookmail.com  
**Logan Harris DNRP Media Spokesperson**

Work: (206) 263-6550

Home: (425) 775-7022

Cell: (206) 255-3229 DC: 342\*28

Alpha pgr: 2062553229@txt.att.net

**Doug Williams – Media relations Coordinator**

Work: (206) 296-8304

Home: (206) 372-2463

Cell: (206) 257-8617 DC: 342\*126

Alpha pgr: 2064693379@cookmail.com

**Tim O'Leary –**

Work: (206) 263-7345

Home: (206) 542-7244

Cell: (206) 331-0076 DC: 342\*382

Alpha pgr:

2063310076@messaging.nextel.com

**Media Joint Information Center**

at the KC-ECC

(206) 205-1000

**Biosolids Transportation**

**Mark Lucas – Biosolids Transportation Coord**

Work: (206) 684-1248

Home: (206) 288-3473

Cell: (206) 930-7554

**Peggy Leonard - Biosolids Supervisor**

Work: (206) 684-1592

Home: (425) 868-1516

Cell: (425) 941-2710

**Jessie Israel –**

**Resource Recovery Mgr.**

Work: (206) 684-1844

Home: (206) 390-7894

Cell: (206) 913-7412

**WLRD Hazardous Waste Management**

130 Nickerson, Suite 100, Seattle (206) 263-3050

**Dave Galvin - Program Manager**

Work: (206) 263-3085

Home: (206) 323-6439

Cell: (206) 718-5397

**Rey Verduzco – Health & Enviro Investigator**

Work: (206) 263-3068

Home: (206) 285-5381

Cell: (206) 617-7356

**Environmental & Comm. Services**

**Greg Bush - Manager**

Work: (206) 684-1164

Home: (206) 850-1164

Cell: (206) 255-5872 DC: 342\*383

**Betsy Cooper – NPDES Permitting**

Work: (206) 263-3728

Home: (360) 297-4772

Cell: (206) 819-7834

**Public Outreach and Community Response**

**Monica Van Der Vieren – Comm Relations**

Work: (206) 263-7301

Water and Land Resources Division  
Stormwater Emergency Response Protocols

Home: (206) 419-7017  
Cell: (206) 255-9105 DC: 342\*362  
Alpha pgr: 2069690413@cookmail.com  
Doug Marsano – Community Services  
Work: (206) 684-1235  
Home: (206) 297-9888  
Cell: (206) 423-0480 DC: 342\*229  
Erika Peterson – Community Relations  
Work: (206) 296-8229  
Home: (206) 361-0095  
Cell: (206) 423-5999 DC: 342\*325  
Personal Cell: (206) 261-0762

Alpha pgr: 2069916268@usamobility.net

**Industrial Waste**

130 Nickerson, Suite 200, Seattle (206) 263-3000

Despina Strong - Program Manager

Work: (206) 263-3010

Home: (206) 364-9783

Cell: (206) 255-1207 DC: 342\*170

Jim Sifford –IW Investigator

Work: (206) 263-3008

Home: (253) 943-5246

Cell: (206) 992-2416

Tim Coffee – Lead IW Specialist

Work: (206) 263-3020

Cell: (206) 427-4642

Bruce Tiffany – Water Quality Engineer

Work: (206) 263-3011

Home: (253) 943-5410

Cell: (206) 255-2190

**WLRD Environmental Laboratory**

322 W Ewing St, Seattle (206) 684-2300

Kate Leone - Manager

Work: (206) 684-2315

Home: (425) 670-2489

Cell: (206) 391-5195

Ali Wendy - Building Specialist

Work: (206) 684-2333

Cell: (206) 391-2086

**DRNP/WTW Water Quality Trouble Call Coord**

**Ben Budka**

Work: (206) 684-2328

Home: (206) 285-0998

Cell: (206) 423-7834 DC: 342\*6200

Alpha pgr: 2069931353@cookmail.com

**Project Management**

Kathy Loland - Manager

Work: (206) 684-1464

Home: (425) 488-7005

Cell: (206) 786-5846 DC: 342\*626

Alpha pgr:

2067865846@messaging.nextel.com

Ron Kohler – EEC Rep & Ops/Maint Coord

Work: (206) 684-20

Home: (425) 432-7212

Cell: (206) 423-3268 DC: 342\*3268

Alpha pgr: 2064694752@cookmail.com

**Brightwater Project**

**Brightwater Treatment Plant**

22505 State Route 9, Woodinville

Office: (206) 263-9465

Cell: (206) 255-1154 DC: 342\*333

**Brightwater Public Involvement**

Rotating on call phone: (206) 205-5989

Gunars Sreibers – Brightwater Project Mgr

Work 1: (206) 263-9473

Home: (425) 743-6170

Work 2: (206) 684-2113

Cell: (206) 427-6034 DC: 342\*620

Alpha pgr:

2064276034@messaging.nextel.com

Judy Cochran – BW Conveyance

Work: (206) 205-1459

Home: (206) 286-8045

Cell: (206) 914-7278 Cell2: (206) 286-8045

Rob LaRock – BW Maintenance Supervisor

Work: (206) 263-9460

Home: (425) 821-9594

Cell: (206) 255-0834 DC: 342\*73

Alpha pgr:

2062550834@messaging.nextel.com

**On-Call Hazardous Materials Response**

**Contractor**

PSC Environmental Services

24 Hour Emergency Response: 1-877-577-2669

Universal Contract # 1182-10

**Wastewater Treatment Division**

**Safety Hotline: (206) 263-3744**

## **Appendix E – Stormwater Emergency Response Protocols Acronyms**

CSU – Capital Services Unit, a program in SWS

DIFM – Drainage Investigation and Facilities Maintenance, a program in SWS

DOE – Washington State Department of Ecology

ECI - Emergency Capital Improvements

FEMA – Federal Emergency Management Agency

KC – King County

MHz – megahertz

SER – Stormwater Emergency Response

SEWQ - Stormwater Emergency Water Quality

SWDM - Surface Water Design Manual

SWS – (King County) Stormwater Services Section

WLRD – (King County) Water & Land Resources Division

Water and Land Resources Division  
Stormwater Emergency Response Protocols

**Appendix F - List of SWS DOE Dams**

Hazard Class 1 Stormwater Facilities			
Facility Number	Facility Name/Address	Facility Type   Hazard Class	Comments
DR0613	Yellow Lake Dam 24661 SE 44 <sup>th</sup> Street	Dam   Hazard Class 1c	
DR0645	Redmond Ridge EC 4N 23450 Redmond Ridge Drive NE	Dam   Hazard Class 1c	
DR0647	Redmond Ridge Cedar Dam (D92759) 10500 Cedar Park Crest NE	Dam   Hazard Class 1c	
	Johnson Pond 2 (DR0640) 6308 217 <sup>th</sup> Avenue NE	Dam   Hazard Class 1c	
D96055	Redmond Ridge East Pond SRN2 10802 243 <sup>rd</sup> Avenue NE	Dam   Hazard Class 1c	
DR0642	Madsen Creek West Basin (Pending)	Water Quality Pond   Hazard Class 1c	

Other Hazard Class Dams Under Stormwater Purview			
Facility Number	Facility Name/Address	Facility Type   Hazard Class	Comments
DR0500	Peterson Pond NE Union Hill Road & 238 <sup>th</sup> Avenue NE	Dam   Hazard Class 3	
DR0609	Queens Bog Dam (aka Klahanie No. 6 & 7) 3300 241 <sup>st</sup> Avenue SE	Dam   Hazard Class 3	
DR0614	Klahanie 2 (D91174) 3800 254 <sup>th</sup> Avenue SE	Dam   Hazard Class 2	
DR0615	Klahanie 14/17/18 (aka Klahanie No. 13) 25700 Issaquah-Fall City Road	Dam   Hazard Class 2	
DR0646	Redmond Ridge EC 61 West of Redmond Ridge Dr. at NE Cedar Park Crescent	Water Quality Pond   Not under DOE	
DR0648	Redmond Ridge Pond ECW 1B1 (D92753) 22179 NE 93 <sup>rd</sup> Street	Dam   Hazard Class 3	
DR0649	Redmond Ridge Pond ECC 1B1 (D92850) 9800 Redmond Ridge Dr.	Dam   Hazard Class 3	



## Appendix G - Emergency Response Cost Tracking

<p>Your notes do not need to be lengthy or take a long time to write, but they need to be descriptive. Take a few moments to take notes as you respond to events so that you will not have to reconstruct your activities later. If in doubt of the importance of something, make a note of it. Print legibly. Use one form per site.</p>
Date:
Responder Name(s):
Other Personnel Working With You:
Vehicle ID Number:
Start Time (include travel time to and from):
End Time:
Facility or Site Name:
Hours worked at site:
Who notified you and when?
Who did you notify and when?
Reason for response?

Emergency Response Cost Tracking  
Page 2

What was discovered when arriving at the site? – (be descriptive – damage, dimensions, etc.) Take photos if possible. Log photo numbers here.

What did you do at the site?

Were Repairs:  Temporary  Permanent

Equipment used at the site include KC ID No. of equipment and operator if other than self (if other equipment briefly describe)

- Generators (note run time in log book as well)
- Vac Truck/Boom Truck/Cranes
- Pumps
- Other??

Types and quantities of material expended:  
(if you purchased or rented supplies or equipment keep receipts)

- Fuel – Gasoline/Diesel
- Parts
- Other??

Other specific data related to site response (e.g. contractors hired, other agencies encountered, emergency actions take, etc.):

Attach Additional Supporting Documentation as Necessary

Turn in Completed Form to Your Supervisor at the End of Your Shift



**King County**

Stormwater Services Section  
Water and Land Resources Division  
Department of Natural Resources and Parks

**KING COUNTY  
WATER AND LAND RESOURCES DIVISION  
"TIER 3" SPILL RESPONSE PLAN  
FOR SPILL RESPONSE COORDINATORS**



*July 2012*

This document applies chiefly to personnel in the following WLRD groups:

- *SWS Water Quality Compliance Unit Spill Response Coordinators*
- *Others as determined by WLRD Supervisory Management*

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## **INTRODUCTION**

This document provides direction for King County Water and Land Resources Division (WLRD) Spill Response Coordinators (SRCs). It describes guidelines, procedures, roles, and responsibilities so that WLRD SRCs (and designated support staff) can assist WLRD field staff in properly identifying spills, and for SRCs/support staff to properly report spills. Page 14 of this document has a Spill Response Flow Chart which may be useful for SRCs.

**Spill Definition:** Spills are defined as **discharges of contaminants onto the ground or into surface waters, or the stormwater management system.** Depending on the quantities and kinds of material discharged, spills can range from small and readily controlled and cleaned up, to harmful and difficult to address.

**Spill Response Goals:** The goals of spill response are the protection of human health, the environment, and property. These goals are more likely to be achieved when spill response is prompt and appropriate.

This document is part of the WLRD spill response approach comprised of these three “tiered” Spill Response Plans:

- Tier 1, *Spill Response Plan for Identifying and Notifying;*
- Tier 2, *Spill Response Plan Including Some Containment and Clean-up Measures;* and
- Tier 3, *Spill Response Plan for Spill Response Coordinators* (this document).

The “Tier 1” Spill Response Plan contains spill definitions and appropriate spill notification procedures. The “Tier 2” Spill Response Plan includes all the information in Tier 1, with additional containment and clean-up actions for non-significant spills described.

Spill identification and reporting are the major expectations of WLRD field staff under WLRD’s tiered spill response approach. However, if minor (“non-significant”) spill minimization, containment and/or clean-up measures can voluntarily be implemented by WLRD staff, such actions are considered appropriate. These actions are to be undertaken only if *all* these conditions exist:

- Staff person has had the appropriate training;
- Staff person is properly equipped;
- Containment and clean-up actions can be safely done;
- Spilled material is known;
- Spill has been identified as non-significant (one person can clean it up).

## **APPLICABILITY**

**WLRD Staff:** The procedures in this Tier 3 Spill Response Plan are applicable to King County WLRD personnel (SRCs and designated support staff) who are responsible for assisting in spill identification and agency notifications. All WLRD field personnel are expected to be familiar with the information presented in their Spill Response training and with Tier 1, *Spill Response Plan for Identifying and Notifying* and (if supervisors consider it appropriate) Tier 2, *Spill Response Plan Including Some Containment and Clean-up Measures*.

## **SPILL CATEGORIES**

**INTRODUCTION:** For the purpose of WLRD's spill response identification and reporting, spills are divided into three categories/definitions with characteristics as noted:

- **Life-Threatening Spill:**
  - Has the potential for fire, explosions, noxious gases, harmful/toxic chemicals, radioactivity, or other dangers.
  - A crew with specialized equipment is needed to safely and properly contain and clean it up.
  - Can occur anywhere, and may or may not have entered the stormwater system or a natural waterway.
  - Volumes can range from small to large depending on the nature of the material discharged and the spill location.
  - Examples of life-threatening spills include, but are not limited to:
    - Gasoline spread over a wide area.
    - Gasoline (more than a half gallon) that has entered the stormwater system or a natural waterway.
    - Chlorine in any amount, anywhere.
    - Solvents, paint thinners, battery acid, pesticides/herbicides, sulfuric acid, and industrial process chemicals, in any amount, that have entered the stormwater system or a natural waterway.
    - Unknown liquid materials, in any amount, anywhere.
    - Unknown solid materials, in any amount, anywhere.

The health and safety of its employees are of paramount importance to King County, so whenever a spill material is not known, the assumption must be that it is life threatening.

**Call 9-1-1** to mobilize local fire departments. **WLRD field personnel do NOT perform spill containment or clean-up for life-threatening spills.**

- **Significant Spill:**

- Neither life-threatening nor non-significant.
- One person cannot safely and properly clean up. (A crew with specialized equipment is needed to safely and properly contain and clean up.)
- Has entered or will soon enter the stormwater system and/or a natural waterway. (Rainfall could cause an otherwise non-significant spill to spread and become a significant spill.)
- Volumes are variable. (A large spill of a "safe" substance, such as milk, entering the stormwater system can harm the environment. A small sewage release anywhere is always considered harmful to human health. Both these kinds of spills are significant.)
- Always involves a *known* material.
- Examples of significant spills include, but are not limited to:
  - Gasoline that has spread over a wide area and/or entered the stormwater system or natural waterway.
  - Sewage in any amount, anywhere.
  - Motor oil, diesel, transmission fluid, antifreeze, paints or detergents that are beyond the capability of one person to safely and properly clean up.
  - Milk, "Pepto Bismol", etc. in large amounts that has spread over a wide area and/or entered the stormwater system or natural waterway.
  - Solids that are not life-threatening but are in amounts too large for one person to properly and safely clean up.
- If in doubt whether or not a spill is significant or non-significant, a WLRD field person should call the Water Quality Complaint line at **206-296-1900** for assistance in categorizing a spill.

- **Non-significant Spill (also called “incidental” or “de minimis” spill):**
  - Poses no harm to human health, the environment or property if quickly and properly cleaned up.
  - Volume is small.
  - One person can safely and properly contain and clean it up.
  - Is contained and has not entered the stormwater system or a natural waterway.
  - A non-significant spill always involves a *known* material.
  - Note that while these spills are called “non-significant”, they must still be cleaned up to prevent their spreading and entering a waterway or stormwater system. A non-significant spill that is ignored or handled improperly can become significant, requiring more resources to clean up.
  - Examples of non-significant spills include, but are not limited to:
    - Motor oil, diesel, transmission fluid, hydraulic fluid, detergents, paint and antifreeze in small release amounts (a few gallons or less) that have not spread and have not entered the stormwater system or a natural waterway.
    - Non-toxic, non-hazardous solid materials in small, contained, easily cleaned up amounts.
  - Clean-up materials of the above kinds of materials released in small amounts can be disposed of legally in the garbage.
  - If in doubt whether or not a spill is non-significant, a WLRD field person should call the Water Quality Complaint line at **206-296-1900** for assistance in categorizing a spill.

## ***SPILL RESPONSE ACTIONS***

**Life-Threatening Spills: Field staff are directed in Tier 1 and Tier 2 Spill Response Plans to call 9-1-1 immediately in any emergency situation at any location where human life or health is at risk or significant environmental or property damage has occurred or may soon occur. If this emergency phone call has not been made, request the caller to hang up and immediately call 9-1-1, and to call back after this.**

- The safety of all people near a life-threatening spill is most important.
- WLRD field staff should be directed to get to a safe location or distance before calling 9-1-1.
- WLRD field staff should be directed to evacuate people (and domestic animals if safe to do so) to an appropriate distance.

**Life-Threatening Spills on Roads Rights-of-Way:** After 9-1-1 has been called for life-threatening spills in or likely to enter King County Road Rights-of-Way or other County properties, WLRD field staff are directed in Tier 1 and Tier 2 Spill Response Plans to *also call these two county numbers after calling 9-1-1; notify each that 9-1-1 has been contacted:*

**WLRD Stormwater Services Water Quality Complaint Line.....206-296-1900**

**Roads Maintenance 24-Hour Emergency Line .....206-296-8100**

If for some reason neither can be immediately contacted, WLRD field staff are directed to notify the **Washington State Department of Ecology Spill Response Team at 425-649-7000**. Field staff are to report this call to a WLRD SRC by leaving a voicemail.

**Life-Threatening Spills on County Properties, SRC Notification:** After 9-1-1 has been called, for spills on County properties WLRD Water Quality Complaint/SRC staff notify the following County Spill Response Coordinators as relevant:

- **Roads**—notify Roads Environmental Response Unit (Jennifer Keune, Louise Pitell, Jason Finlinson or Rob Fritz, phone numbers as shown in the Spill Response Flow Chart.)
- **Wastewater Treatment Division**—Betsy Cooper at 263-3728.
- **Facilities Management Division**—Bill Eckel at 296-1860.
- **Airport**—Peter Dumaliang at 296 7380.
- **Solid Waste**—Dinah Day at 296-0484.
- **Transit**—Talon Swanson at 684-2281.

**Life-Threatening Spills on Other Agencies' or Private Properties:** After 9-1-1 has been called, Water Quality Complaint/SRC staff notify the **Washington State Department of Ecology Spill Response Team at 425-649-7000**.

**Significant Spills:** For significant spills, emergency 9-1-1 responders may not be the appropriate party to call. Instead of calling 9-1-1, WLRD field staff are directed to call the **Water Quality Complaint Line at 206-296-1900**. Upon receiving this notification, WLRD in-house Water Quality Complaint/SRC staff have three different options for notifying agencies. These are described below:

- **On King County Road Rights-of-Way or King County stormwater management facilities:** Notify King County Roads Environmental Response Unit (ERU) personnel.
- **On other King County properties and other public agency properties:** In all cases, notify the **Washington State Department of Ecology Spill Response Team at 425-649-7000**. On other County properties, notify other County SRCs as relevant; numbers are shown in the above section.
- **On Private Property:**
  - Notify the **Washington State Department of Ecology Spill Response Team at 425-649-7000**; and
  - WLRD personnel should provide private property owners with information about the importance of cleaning up spills, especially where Waters of the State (including creeks, rivers, lakes and wetlands) or public stormwater management facilities (such as detention/retention ponds) could be harmed. WLRD staff should also provide property owners with contact information for commercial spill clean-up contractors. Some contractors are listed on Pages 10 and 11, Spill Response Contact Information. If contractor information is provided, clarify that King County is **not** endorsing or recommending any contractor and that the information is provided for convenience only.

- **Only if safe and easy to do, direct field staff to minimize quantity of material spilled**, whenever possible. Examples include turning off an engine/equipment or righting a container that has tipped over.

**Non-Significant Spills (also known as “incidental” or “de minimis” spills):**

No spill notification is needed, therefore no phone call is necessary if spill can be safely and properly cleaned up and disposed of in the garbage. If there are questions about the significance of a spill, WLRD field staff may contact the **Water Quality Complaint Line at 206-296-1900**; staff there can help determine the significance and/or route the call to a WLRD SRC. If a spill is too large for one person to handle, it is not non-significant.

- **On all properties, minimize quantity of material spilled**, if possible to safely do so. Examples include turning off an engine/equipment or righting a container that has tipped over.
- **On King County property:** If County worker is equipped and has been trained to safely and properly clean up spills, non-significant spills should be cleaned up and disposed of in the garbage by the County worker.
  - **Containment:** To limit lateral spreading of spilled material, it may be possible to safely and readily construct a containment berm using granular absorbent material (“kitty litter”) or booms or berms. Booms/berms are useful in keeping the spilled material from reaching sensitive receptors, such as water bodies and storm drains. Another way to protect storm drains is to plug or cover them, place absorbent-containing socks or “pigs” around them, or some combination of these measures.
  - **Clean-up & Disposal:** Place and sweep up absorbent materials, and dispose of materials in the garbage.
  - If County worker is not trained or equipped in non-significant spill clean-up, call the **King County Water Quality Complaint Line at 206-296-1900** for clean-up assistance.
- **On other public agency’s property:** If spill can be safely and properly contained, cleaned up and disposed of in the garbage by the County worker, do so following protocols in the above paragraph. If County worker is not so trained or equipped, call the **King County Water Quality Complaint Line at 206-296-1900** for clean-up assistance.
- **On private properties:** WLRD personnel should provide private property owners with information about the importance of cleaning up spills, especially where Waters of the State (including creeks, rivers, lakes and

wetlands) or public stormwater management facilities (such as detention/retention ponds) could be harmed. WLRD staff may provide property owners with contact information for commercial spill clean-up contractors. Some contractors are listed on 13, Spill Response Contact Information. If contractor information is provided, clarify that King County is **not** endorsing or recommending any contractor and that the information is provided as a convenient resource only.

Note: If there is a Spill Response Kit and/or spill absorbent materials available in the County vehicle, it is appropriate to give these to the private property owner to contain and clean up a non-significant spill (such as a gallon of motor oil or diesel entirely contained on-site). A sufficient amount of "kitty litter" type absorbent can be used to absorb such material. The used "kitty litter"—*as long as it's not saturated*—can be securely double-bagged in intact plastic bags and disposed of in the garbage.

## **EQUIPMENT**

WLRD vehicles should be equipped with **spill kits** that contain a variety of materials designed to facilitate spill cleanup. Each kit should include a supply of:

- Absorbent pads
- Absorbent booms
- Berms
- Granular absorbent material (a.k.a. "kitty litter")
- Plastic garbage bags
- Disposable gloves
- Protective eyewear
- Traffic cones
- Barricade tape
- Dust pans (non-metal, to avoid sparking)
  
- **Universal spill kits** are identified by *gray* absorbent pads. These gray pads are designed to absorb both water and oil based substances.
  
- **Oil-only spill kits** are identified by *white* pads. These white pads will absorb only oil-based materials, even when placed in the presence of water-based liquids.

For personal protection, footwear should be boots, and shirts and pants should be long-sleeved.

## **DOCUMENTATION**

Spills are documented through a variety of records, including:

- Water Quality Complaints that are generated by citizens are documented as such in Stormwater Services' Water Quality Complaint (WQC) database. WQCs also document follow-up work that is necessary. WQCs are generated and managed by Stormwater Services staff.
- The Washington State Department of Ecology is notified by the WLRD SRC in the event of life-threatening and significant spills. Ecology's Emergency Response Team phone is 425-649-7000.
- Whenever possible request field staff obtain photographs of the spill and its impacts on property and the environment. Write down spill details (see Page 13, Need to Know Details for Spill Reporting for details to request of field staff) and, if possible, the name and address of the company/person who caused the spill.

## **TRAINING**

Spill response training is offered to WLRD field personnel through Stormwater Services. New employees typically attend the training within a few months of being hired and subsequent refresher training is provided to all staff at regular intervals. WLRD personnel are expected to be familiar with the information presented in the training and in this Spill Response document so that they are prepared to respond to spills appropriately.

## **SPILL RESPONSE COORDINATOR RESPONSIBILITIES**

SRCs are expected to be familiar with the information presented in the training and in this Tier 3 Spill Response Plan so that they are prepared to respond to document spills appropriately, including assisting in identifying, reporting and documenting them according to this plan and to WLRD procedures.

SRCs should be up-to-date in hazardous material and spill response training as considered appropriate by WLRD supervisory management.

## **RISKS**

King County's policy is to place the safety of staff above response actions. If a field staff person is unsure or uncomfortable, at any time he/she may call the **King County Water Quality Complaint Line at 206-296-1900** or **9-1-1** emergency dispatch.

The National Fire Protection Association (NFPA) hazard symbols are briefly explained on Pages 11 and 12. Placards using these symbols may give important information about materials released in a spill. WLRD field staff may be in a situation where these placards could be useful. However, there is no guarantee they will either be able to safely get close enough to read such placards, or that any given placard accurately reflects the content of the transport container which it's attached to.

### **SPILL RESPONSE CONTACT INFORMATION**

#### **King County Water and Land Resources Spill Response Coordinators (SRCs)**

- Jeanne Dorn, Engineer II.....206-296-4690
- Doug Navetski, Supervising Engineer .....206-296-8311
- Gary-Paul Reinke, Engineer II.....206-205-5287

#### **King County Water and Land Resources**

- Water Quality Complaint Line.....206-296-1900
- Front Desk Receptionist.....206-296-6915

#### **King County Roads Environmental Response Unit (ERU)**

- Jennifer Keune, Environmental Scientist III...206-793-3999; 206-205-3703
- Louise Pitell, Engineer II.....206-423-3461; 206-296-8219
- Jake Finlinson, Environmental Scientist II.....206-793-0562; 206-205-3706
- Rob Fritz, Supervising Ecologist.....206-205-7107

Roads Maintenance 24-Hour Emergency.....206-296-8100

Washington State Department of Ecology Spill Response Team.....425-649-7000

Private Spill Clean-up Contractors (Provided for information only; these are not recommendations or endorsements by King County):

**Bravo Environmental Services**  
6705 NE 175<sup>th</sup> St, Kenmore, WA 98028  
Phone: 425-424-9000 or 1-888-272-8644  
Fax: 425-424-9002  
[www.bravoenvironmental.com](http://www.bravoenvironmental.com)

**Davidson Macri, Inc**  
12020 SE 32<sup>nd</sup> St, Suite 4, Bellevue, WA 98005  
Phone: 425-289-1145 or 1-855-457-9337  
Fax: 425-289-1146  
[www.davidsonmacri.com](http://www.davidsonmacri.com)

**Emerald Services**

7343 East Marginal Way South  
Phone: 206-832-3000 or 206-832-3052  
Fax: 206-832-3030  
[www.emeraldservices.com](http://www.emeraldservices.com)

Everson's Econovac  
P.O. Box 428, Sumner, WA 98390  
Phone: 253-848-5250  
Fax: 253-848-5363  
[www.eversons-econovac.com](http://www.eversons-econovac.com)

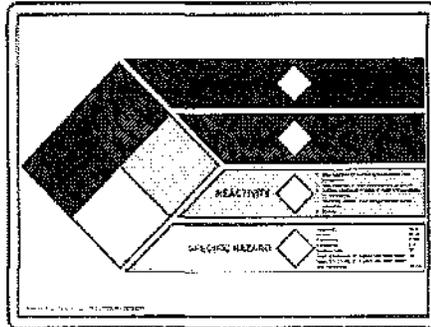
Marine Vacuum Service, Inc.  
P.O. Box 24263, Seattle, WA 98124  
Phone: 206-762-0240 or 1-800-540-7491  
Fax: 206-763-8084  
[www.marinevacuum.com](http://www.marinevacuum.com)

NRC Environmental Services  
9520 10<sup>th</sup> Ave South, Suite 150, Seattle, WA 98808  
Phone: 1-800-337-7455 or 206-607-3000  
Fax: 206-607-3001  
[www.nrces.com](http://www.nrces.com)

PSC Environmental Services  
18000 72<sup>nd</sup> Ave South, Kent, WA 98032  
Phone: 1-800-882-9785 or 425-227-0311, Emergency: 1-877-577-2669  
Fax: 425-204-7164  
[www.pscnow.com](http://www.pscnow.com)

*(For spill containment and clean-up materials, no services provided:)*  
Advanced Environmental Solutions, Inc  
8463 S 212<sup>th</sup> St, Kent, WA 98031  
Phone: 253-872-9363 or 1-800-275-3549  
Fax: 253-872-0260  
[www.shopacs.com](http://www.shopacs.com)

**NFPA "HAZARD OR FIRE DIAMOND":** The following symbolism is used by the National Fire Protection Association. The "Hazard or Fire Diamond" is used on vehicle placards. Transporters are required to use this placarding to indicate hazardous materials. The Diamond uses colors to indicate types of material hazards, and numeric ranges from 0 to 4 to indicate the hazard severity. :



**NFPA HAZARD CATEGORIES":** The colors and ranges of the Hazard or Fire Diamond placarding system mean the following:

**Blue** indicates the material's **health hazard**:

- 0 indicates no health hazard;
- 1 indicates exposure would cause minor injury;
- 2 indicates exposure could cause temporary incapacitation or residual injury;
- 3 indicates short exposure could cause serious temporary or moderate injury; and
- 4 indicates a very short exposure could cause death or major residual injury.

**Red** indicates a **flammability (fire) hazard**:

- 0 indicates no burning hazard;
- 1 indicates must be heated before ignition will occur and the flashpoint is over 200° F;
- 2 indicates must be moderately heated or exposed to relatively high ambient temperature before ignition can occur (e.g., diesel fuel) and flashpoint between 100°F and 200° F;
- 3 indicates liquids and solids that can be ignited under almost all ambient temperatures (e.g. gasoline). Liquids having a flashpoint below 73°F and a boiling point at or above 100°F or having a flashpoint between 73°F and 100°F;
- 4 indicates material will rapidly or completely vaporize at normal atmospheric pressure and temperature, or is readily dispersed in air and will burn readily (e.g., propane, hydrogen). Flashpoint below 73°F.

**Yellow** indicates an instability/reactivity hazard:

**0** indicates material is normally stable, even under fire exposure, and is not reactive with water;

**1** indicates normally stable, but can become unstable at elevated temperatures and pressures (e.g. propylene);

**2** indicates violent chemical change at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water (e.g., phosphorous, potassium, sodium);

**3** indicates capable of detonation or explosive decomposition but requires a strong initiating source, must be heated under confinement before initiation, reacts explosively with water, or will detonate if severely shocked (e.g., ammonium nitrate, chlorine, trifluoride);

**4** indicates readily capable of detonation or explosive decomposition at normal temperatures and pressures (e.g., nitroglycerine, Trinitrotoluene).

**White** indicates a specific named hazard, including:

**OX**, indicating the material is an oxidizer (e.g., potassium perchlorate, ammonium nitrate, hydrogen peroxide) and

**W** indicating the material reacts with water in an unusual or dangerous manner (e.g., cesium, sodium, sulfuric acid).<sup>1</sup>

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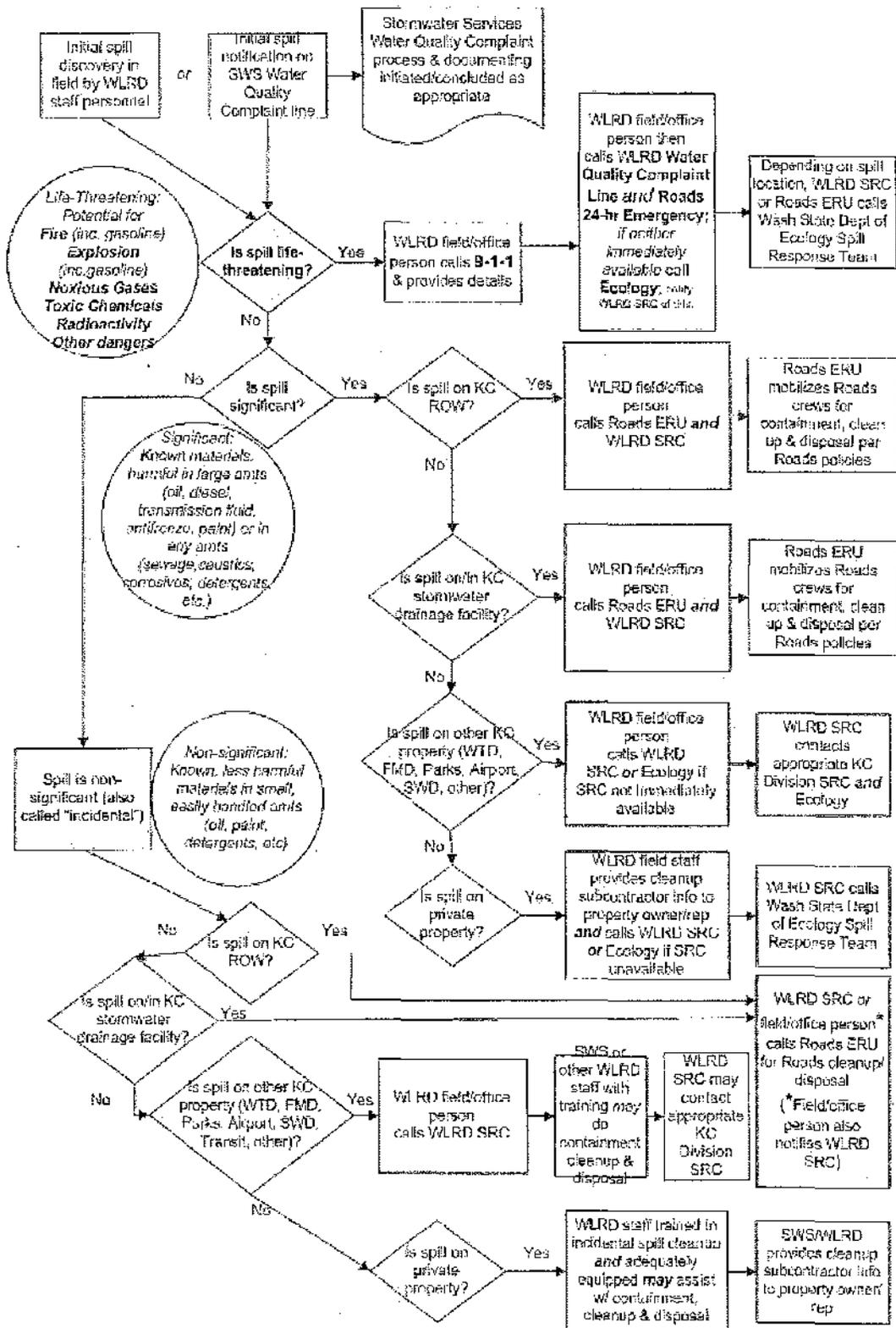
<sup>1</sup> Wikipedia, "NFPA 704", March 1, 2012, at [http://en.wikipedia.org/wiki/NFPA\\_704](http://en.wikipedia.org/wiki/NFPA_704)

## **NEED TO KNOW DETAILS FOR SPILL REPORTING**

The following information is needed to appropriately respond to a spill. Personnel reporting a spill, and those receiving spill reports should note the following details. Be prepared to give this information when reporting a spill:

1. Date and time of call.
2. Date and time of spill, if known. Estimate these if not known.
3. Name and phone number of person calling
4. Location of spill. Include nearest intersection and/or address. Include Thomas guide page and grid if known.
5. Material spilled, if known.
6. Quantity of material (estimate if exact amount not known).
7. Is the material contained? If so, name the measures implemented (drain covers placed, absorbents scattered, "socks" and/or "pigs" placed, etc.). Has source been shut off, or is it continuing to release?
8. Is the spill on King County roadway or at a county stormwater facility?
9. Is the spill on property owned or maintained by another KC agency and if so, which one?
10. Is the spill on private property?
11. Is the spill on: pavement; soil; grass; or gravel?
12. Is the spill in or adjacent to a natural waterway? Is spill in or adjacent to a stormwater conveyance (ditch, catch basin, manhole)?
13. Are there any fumes or odors? If so, describe.
14. Has any other agency been contacted? If so, provide phone number & agency name.
15. Is another agency or agencies already on site? If so, provide names and jurisdictions.
17. Is it raining where spill has occurred?

## King County WLRD Spill Response Flow Chart



Flow Chart Phone Numbers	
<b>Emergency</b>	9-1-1
<b>Roads 24-hr Emergency</b>	206-296-6100
<b>SWS Water Quality Complaint Line</b>	206-296-1900
<b>Wash State Dept of Ecology Spill Response Team</b>	425-649-7000
<b>WLRD SRC (Spill Response Coordinator)</b>	206-263-4690 (Dorri); 206-296-8311 (Navetski); 206-263-6456 (Mickey); 206-205-5287 (Roinke).
<b>WLRD Receptionist</b>	(206) 296-6519
<b>Roads ERU (Environmental Response Unit)</b>	206-793-3999 or 206-205-3703 (Keune); 206-423-3461 or 206-296-1219 (Pillel); 206-793-0562 or 206-205-3706 (Hinton); 206-793-1472 or 206-206-7107 (Fritz).
<b>Private spill subcontractors</b>	1-888-272-8644 (Briave) 425-289-1146 (Cavendon Maori) 252-882-5851 (Eversen's) 1-800-275-3549 (Advanced Env. Spill Response only, no cleanup services)
<b>KC Divisions SRCs</b>	WTD: Cooper, 263- 3728 FMD: Enkel, 296-1860 Parks: Sizemore, 205- 7549 Airport: Dumallang, 296-7380 SWD: Day, 296-0484 Transit: Swanson 694 2261

**Appendix 4 -  
King County 2013 Outreach and  
Education Matrix**

**King County Stormwater Management Program 2013  
Appendix 4 - Public Outreach and Education Matrix**

		10. Education and Outreach Program	Topics/Reference														Measurements		
		Legend: Programs designated with an "A" indicate topics already addressed within the program. Programs designated with an "M" means the program will be modified to include the topic or measurement/report in future efforts.	General Impacts	Environmental Stewardship	Impervious Surface Impacts	Yard Care	Landscaping/Landscaper Outreach	Buffers	Forest Retention, Trees	LID Design, Pervious Pavement	Animal Waste	Chem/Pest/Fert. & Hazard. Use/Storage	Vehicle Maint, Repair	Business BMPs	Carpet Cleaning BMPs	Stmwr Treatment & Flow Controls	Technical Standards	Measure behavior change and adapt accordingly	Track program measures and report
Program Name	Program Lead/Contact	Program Overview (short)	b.i.1	b.i.1	b.i.1	b.i.3	b.i.1	b.i.1	b.i.3	b.i.3	b.i.1	b.i.2	b.i.2	b.i.2	b.i.3	b.i.4	b.i.4	b.ii	b.iii
Natural Yard Care	Doug Rice	Regional/partnership program with up to 10 cities, & 13 neighborhoods, provides social marketing devised trainings in lawn care; pesticide use, alternatives, and storage; LID solutions; habitat 7 buffer opportunities; pet waste impacts; car washing, water conservation, and retention; soil building value; irrigation; environmental stewardship; Over 700 participants annually.	A	A	A	A	A	A	A	A	A	A	A					A	A
Regional STORM	Doug Rice	STORM (Stormwater Outreach for Regional Municipalities) is a regional group, led by a Core management group. King County participates on the Core team and is fully involved in the planning, grant writing, outreach campaigns, development of best management practices (BMP's), and capacity building throughout the region that educates the general public across a wide variety of BMP's and coordinates the concerted involvement of the 81+ participating jurisdictions.	A	A		A			A	A	A	A	A					A	A
	Doug Rice	GRACE Grant (Grant of Regional or Statewide Significance and NTA (Near Term Action based on the Puget Sound Partnership Action Agenda) focus on preventing and solving the Vehicle Leaks problem in the Puget Sound Region. Grant involves \$300,000 to create and implement a strong partner-based adn media campaign to get folks to check their cars for vehicle leaks. Both the Grant and the NTA seek to find the best management practices to ensure broad	A	A									A	A				A	A
Natural Yard Care	<a href="http://www.naturalyardcare.info/index.php">Website Only</a>	Website designed to guide public through five easy steps to an attractive, low-maintenance yard that is safe and healthy for families, pets, wildlife and the environment. <a href="http://www.naturalyardcare.info/index.php">http://www.naturalyardcare.info/index.php</a>	A	A		A	A					A							

**King County Stormwater Management Program 2013  
Appendix 4 - Public Outreach and Education Matrix**

		Legend: Programs designated with an "A" indicate topics already addressed within the program. Programs designated with an "M" means the program will be modified to include the topic or measurement/report in future efforts.	General Impacts	Environmental Stewardship	Impervious Surface Impacts	Yard Care	Landscaping/Landscaper Outreach	Buffers	Forest Retention, Trees	LID Design, Pervious Pavement	Animal Waste	Chem/Pest/Fert. & Hazard. Use/Storage	Vehicle Maint, Repair	Business BMPs	Carpet Cleaning BMPs	Stmwttr Treatment & Flow Controls	Technical Standards	Measure behavior change and adapt accordingly	Track program measures and report
Program Name	Program Lead/Contact	Program Overview (short)	b.i.1	b.i.1	b.i.1	b.i.3	b.i.1	b.i.1	b.i.3	b.i.3	b.i.1	b.i.2	b.i.2	b.i.2	b.i.3	b.i.4	b.i.4	b.ii	b.iii
Native Plant Guide	<a href="#">Website Only</a>	Online resource to offer plans, guidance, resources for the preservation, retention, restoration, lawn reduction, and to promote salvages. <a href="http://green.kingcounty.gov/gonative/">http://green.kingcounty.gov/gonative/</a>		A		A		A	A			A							
Pesticide Reduction	Lisa Niehaus	1. Outdoor Pesticide Use activities, such as: - Garden Hotline - Natural Yard Care Neighborhoods - Natural Yard Care Nurseries Green Gardening program 2. Provide and support county-wide informational services on IPM, organic practices, natural landscape design, installation and maintenance. 3. Assist schools, agencies, commercial landscape & property managers, neighborhood associations & others in implementing IPM. 4. New pollution-prevention website:	A	A		A	A					A		A				A	A
Pesticide Reduction	<a href="#">Website Only</a>	An online guide for accurate information regarding gardening practices and products, including environmentally safe solutions to common garden and yard problems like moss and pests! <a href="http://www.lhwmp.org/home/GSGS/">http://www.lhwmp.org/home/GSGS/</a>	A	A		A	A		A		A	A							
ESL (English as a Second Language) Outreach and Workshops	Emmanuel Rivera / Larry Holyoke	Outreach and workshops to the ESL community on the following topics: 1) Landscaping - Haz Waste BMP and IPM training and technical assistance 2) Janitorial – Haz Waste BMP & alternative/less toxic cleaning products	A	A		A	A					A		A				A	A

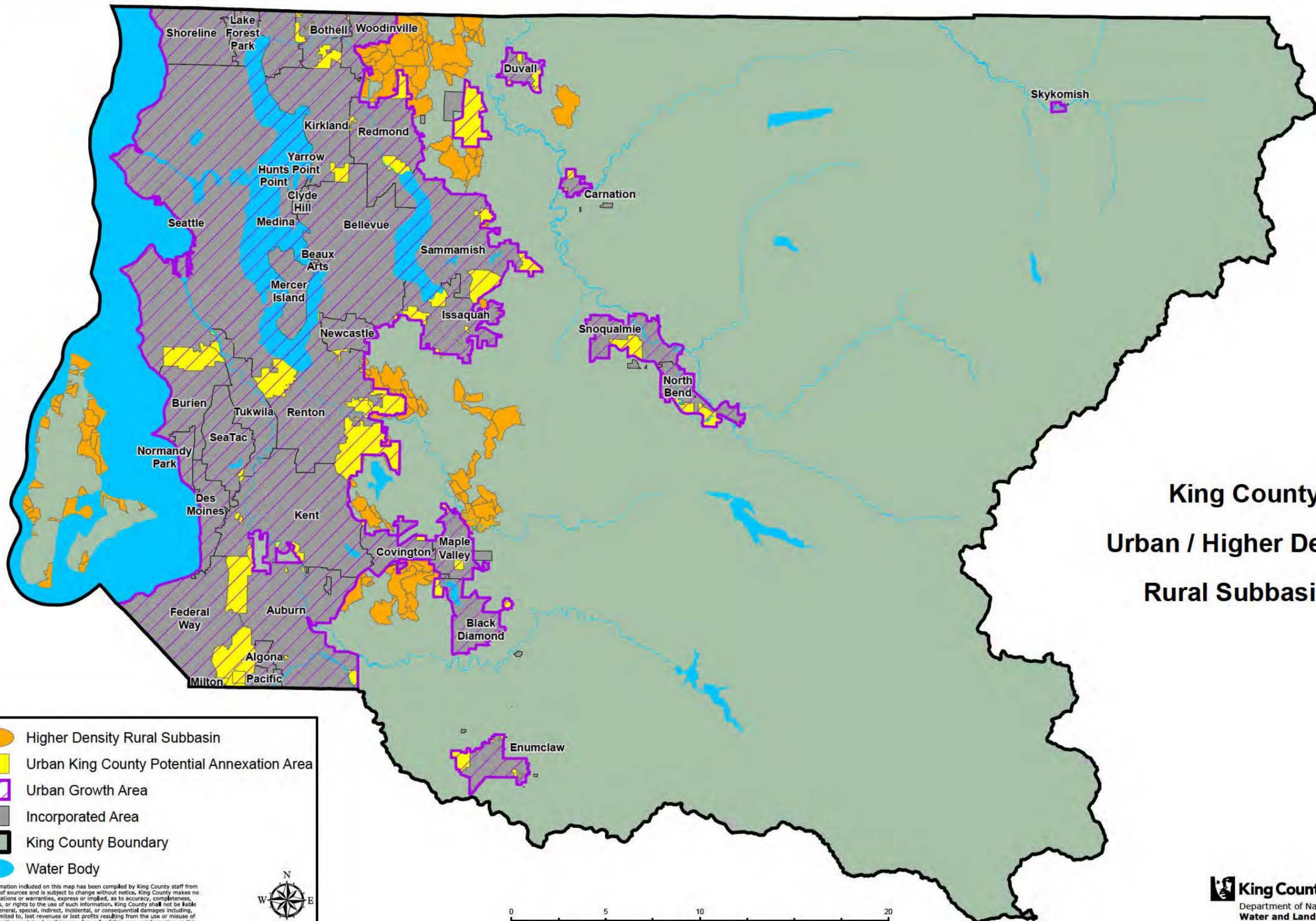
**King County Stormwater Management Program 2013  
Appendix 4 - Public Outreach and Education Matrix**

Program Name	Program Lead/Contact	Program Overview (short)	General Impacts	Environmental Stewardship	Impervious Surface Impacts	Yard Care	Landscaping/Landscaper Outreach	Buffers	Forest Retention, Trees	LID Design, Pervious Pavement	Animal Waste	Chem/Pest/Fert. & Hazard. Use/Storage	Vehicle Maint, Repair	Business BMPs	Carpet Cleaning BMPs	Stmwttr Treatment & Flow Controls	Technical Standards	Measure behavior change and adapt accordingly	Track program measures and report
			b.i.1	b.i.1	b.i.1	b.i.3	b.i.1	b.i.1	b.i.3	b.i.3	b.i.1	b.i.2	b.i.2	b.i.2	b.i.3	b.i.4	b.i.4	b.ii	b.iii
EnviroStars Landscape Industry Program	Laurel Tomchick	Certification program to reduce pesticide use and exposure within landscape related businesses and on properties where they work, plus technical assistance, trainings, presentations on request. Includes in-field consults, 25 pg worksheet documenting compliance, BMP education, additional stewardship activities, & to ID goals to increase enviro-sustainable actions. Renewal system creates on-going verification of practices & reinforcement of messaging.	A	A		A	A					A	A	A				A	A
King County Livestock Program	Rick Reinlasoder	Provides technical assist. to landowners to minimize the adverse environmental impacts of livestock, with focus on manure management and impacts on water quality. Implements the Livestock Management Ordinance (21A.30.030-21A.30.070).	A	A	A			A			A					A		A	A
Public Benefit Rating System and Timberland current use taxation programs	Bill Bernstein	Encourages landowners to exceed code requirements for retaining open space and managing it for environmental benefit. Program also provides a significant avenue for attracting new participants to Rural Stewardship and Farm or Forest Management planning.	A	A	A		A	A	A										A
Lake Stewardship Program	Sally Abella	Educates the public and landowners about actions to prevent contamination of lake waters and engages volunteers in water quality monitoring and the revegetation of lake shoreline buffers. In 2012 will focus building a toxics algae database for public in partnership with state agencies.	A	A			A	A											A
Forestry Program	Linda Vane	Outreach and on-site technical assistance prepares owners of forested properties to develop forest stewardship plans and address degeneration of forest health and wildfire risk. Forest stewardship/management planning has been shown to promote retention and enhancement of forest cover, ensuring stormwater infiltration	A	A			A	A	A	A								A	A

**King County Stormwater Management Program 2013  
Appendix 4 - Public Outreach and Education Matrix**

		Legend: Programs designated with an "A" indicate topics already addressed within the program. Programs designated with an "M" means the program will be modified to include the topic or measurement/report in future efforts.	General Impacts	Environmental Stewardship	Impervious Surface Impacts	Yard Care	Landscaping/Landscaper Outreach	Buffers	Forest Retention, Trees	LID Design, Pervious Pavement	Animal Waste	Chem/Pest/Fert. & Hazard. Use/Storage	Vehicle Maint, Repair	Business BMPs	Carpet Cleaning BMPs	Stmwr Treatment & Flow Controls	Technical Standards	Measure behavior change and adapt accordingly	Track program measures and report
Program Name	Program Lead/Contact	Program Overview (short)	b.i.1	b.i.1	b.i.1	b.i.3	b.i.1	b.i.1	b.i.3	b.i.3	b.i.1	b.i.2	b.i.2	b.i.2	b.i.3	b.i.4	b.i.4	b.ii	b.iii
STORM/PSSH	Doug Rice	Educates public and landowners about basic impacts on regional stormwater through cooperative agreements with related agencies. Co-chairs consortium, works across jurisdictions to train others in program possibilities for capacity building, and helps recruit new members to STORM team	A	A		A	A				A	A	A						M
STORM/PSSH	<a href="#">website</a>	Educates public and landowners about basic impacts on regional stormwater through cooperative agreements with related agencies. Co-chairs consortium, works across jurisdictions to train others in program possibilities for capacity building, and helps recruit new members to STORM team	A	A		A	A				A	A	A						M

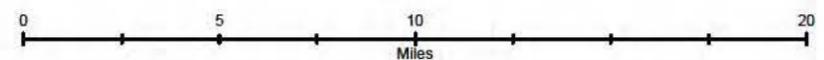
**Appendix 5 -  
King County Urban/Higher Density Rural  
Subbasins Map**



**King County**  
**Urban / Higher Density**  
**Rural Subbasins**

-  Higher Density Rural Subbasin
-  Urban King County Potential Annexation Area
-  Urban Growth Area
-  Incorporated Area
-  King County Boundary
-  Water Body

The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.



**Appendix 6 -  
King County Stormwater Permit  
Compliance Tracking Forms (CTFs)**

## King County NPDES Muni Stormwater Permit Permit Compliance Tracking Form

Work Group: Water & Land Resources Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Douglas Navetski  
 Email: [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
 Phone: 206-296-8311

Year: 2007 - 09

Permit Condition	Done: Yes/No	Compliance Action	
S5A	i	Y	Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats. The documentation of the SWMP shall be organized according to the program components in S5.C. The SWMP documentation shall include a description of each of the program components included in S5.C., and any additional actions necessary to meet the requirements of applicable TMDLs.
		<b>Milestones:</b>	
		Y	Call for Submittals from custodial agencies
		Y	Deadline for Submittals from custodial agencies
		Y	Produce initial draft for custodial agency review
		Y	Produce final draft for management review
		Y	Produce final for publication
		Y	Deliver to Ecology

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	3/31/08	3/31/08
Douglas Navetski	296-8311	12/1/07	12/1/07
Douglas Navetski	296-8311	1/15/08	1/15/08
Douglas Navetski	296-8311	2/15/08	2/15/08
Douglas Navetski	296-8311	3/14/08	3/14/08
Douglas Navetski	296-8311	3/28/08	3/28/08
Douglas Navetski	296-8311	3/31/08	3/31/08

Permit Condition	Done: Yes/No	Compliance Action	
S5A	i	Y	Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats. The documentation of the SWMP shall be organized according to the program components in S5.C. The SWMP documentation shall include a description of each of the program components included in S5.C., and any additional actions necessary to meet the requirements of applicable TMDLs.
		<b>Milestones:</b>	
		Y	Call for Submittals from custodial agencies
		Y	Deadline for Submittals from custodial agencies
		Y	Produce initial draft for custodial agency review
		Y	Produce final draft for management review
		Y	Produce final for publication
		Y	Deliver to Ecology

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	3/31/09	3/31/09
Douglas Navetski	296-8311	12/1/08	12/1/08
Douglas Navetski	296-8311	1/15/09	1/15/09
Douglas Navetski	296-8311	2/15/09	2/15/09
Douglas Navetski	296-8311	3/14/09	3/14/09
Douglas Navetski	296-8311	3/28/09	3/28/09
Douglas Navetski	296-8311	3/31/09	3/31/09

Permit Condition	Done: Yes/No	Compliance Action
------------------	--------------	-------------------

Responsible Party	Phone	Target Date	Date Completed
-------------------	-------	-------------	----------------

**King County NPDES Muni Stormwater Permit  
Permit Compliance Tracking Form**

S5A	i	N	Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats. The documentation of the SWMP shall be organized according to the program components in S5.C. The SWMP documentation shall include a description of each of the program components included in S5.C., and any additional actions necessary to meet the requirements of applicable TMDLs.	Douglas Navetski	296-8311	3/31/10	3/31/10
			<b>Milestones:</b>				
		Y	Call for Submittals from custodial agencies	Douglas Navetski	296-8311	12/1/09	12/1/09
		Y	Deadline for Submittals from custodial agencies	Douglas Navetski	296-8311	1/15/10	1/15/10
		Y	Produce initial draft for custodial agency review	Douglas Navetski	296-8311	2/15/10	2/15/10
		Y	Produce final draft for management review	Douglas Navetski	296-8311	3/14/10	3/14/10
		Y	Produce final for publication	Douglas Navetski	296-8311	3/28/10	3/28/10
		Y	Deliver to Ecology	Douglas Navetski	296-8311	3/31/10	3/31/10
<b>Permit Condition</b>		<b>Done: Yes/No</b>	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
S5A	i	N	Permittee shall prepare written documentation of their SWMP and submit it to Ecology in written and electronic formats. The documentation of the SWMP shall be organized according to the program components in S5.C. The SWMP documentation shall include a description of each of the program components included in S5.C., and any additional actions necessary to meet the requirements of applicable TMDLs.	Douglas Navetski	296-8311	3/31/11	3/31/11
			<b>Milestones:</b>				
		N	Call for Submittals from custodial agencies	Douglas Navetski	296-8311	12/1/10	12/1/10
		N	Deadline for Submittals from custodial agencies	Douglas Navetski	296-8311	1/15/11	1/15/11
		N	Produce initial draft for custodial agency review	Douglas Navetski	296-8311	2/15/11	2/15/11
		N	Produce final draft for management review	Douglas Navetski	296-8311	3/14/11	3/14/11
		N	Produce final for publication	Douglas Navetski	296-8311	3/28/11	3/28/11
		N	Deliver to Ecology	Douglas Navetski	296-8311	3/31/11	3/31/11

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Douglas Navetski  
**Email:** [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
**Phone:** 206-296-8311

Year	2007 - 13
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Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	Y	Control through ordinance, order, or similar means, the contribution of pollutants to municipal separate storm sewers owned or operated by the Permittee from stormwater discharges associated with industrial activity, and control the quality of stormwater discharged from sites of industrial activity	Douglas Navetski	296-8311	2/16/07	1/1/92
		<b>Milestones:</b>				
	Y	KCC Title 9 enacted	Douglas Navetski	296-8311	1/1/92	1/1/92
	Y	KCC Title 9 updated adopted to meet equivalency requirements	Douglas Navetski	296-8311	8/16/08	1/1/09
S5C	Y	Prohibit through ordinance, order, or similar means, illicit discharges to the municipal separate storm sewer owned or operated by the Permittee	Douglas Navetski	296-8311	2/16/07	1/1/92
		<b>Milestones:</b>				
	Y	KCC Title 9 enacted	Douglas Navetski	296-8311	1/1/92	1/1/92
	Y	KCC Title 9 updated adopted to meet equivalency requirements	Douglas Navetski	296-8311	8/16/08	1/1/09
S5C	Y	Control through ordinance, order, or similar means, the discharge of spills and the dumping or disposal of materials other than stormwater into the municipal separate storm sewers owned or operated by the Permittee	Douglas Navetski	296-8311	2/16/07	1/1/92

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

			<b>Milestones:</b>				
		Y	KCC Title 9 enacted	Douglas Navetski	296-8311	1/1/92	1/1/92
		Y	KCC Title 9 updated adopted to meet equivalency requirements	Douglas Navetski	296-8311	8/16/08	1/1/09
<b>Permit Condition</b>		<b>Done: Yes/No</b>	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
S5C	<b>1.b.iv</b>	Y	Control through interagency agreements among co-applicants, the contribution of pollutants from one portion of the municipal separate storm sewer system to another portion of the municipal separate storm sewer system	Douglas Navetski	296-8311	2/16/07	9/25/95
			<b>Milestones:</b>				
		Y	Co-permittee with City of Seattle for the Densmore area, and also Seattle CSO issues	Douglas Navetski	296-8311	9/25/95	9/25/095
<b>Permit Condition</b>		<b>Done: Yes/No</b>	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
S5C	<b>1.b.v</b>	Y	Require compliance with conditions in ordinances, permits, contracts, or orders	Douglas Navetski	296-8311	2/16/07	1/1/92
			<b>Milestones:</b>				
		Y	KCC Title 23 and 9 enacted	Douglas Navetski	296-8311	1/1/92	1/1/92
		Y	KCC Title 23 updated adopted	Douglas Navetski	296-8311	8/16/08	1/1/07
		Y	KCC Title 9 updated adopted to meet equivalency requirements	Douglas Navetski	296-8311	8/16/08	1/1/09
<b>Permit Condition</b>		<b>Done: Yes/No</b>	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
S5C	<b>1.b.vi</b>	Y	Within the limitations of state law, carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance and non-compliance with permit conditions, including the prohibition on illicit discharges to the municipal separate storm sewer and compliance with local ordinances	Douglas Navetski	296-8311	2/16/07	1/1/92
			<b>Milestones:</b>				
		Y	KCC Title 9 enacted	Douglas Navetski	296-8311	1/1/92	1/1/92
		Y	KCC Title 9 updated adopted to meet equivalency requirements	Douglas Navetski	296-8311	8/16/08	1/1/09

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Douglas Navetski  
**Email:** [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
**Phone:** 206-296-8311

<b>Year</b>	2007-13
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Permit Condition		Done: Yes/No	Compliance Action
S5C	2.b.i	Y	Map all known MS3 outfalls, receiving waters, Structural BMPs
			<b>Milestones:</b>
		Y	Convene technical committee to develop mapping effort tech specs (defintions, data collecion & conversion)
		Y	Deadline for mapping submittals from all departments
		Y	Technical committee develop list of elements & taxonomy
		Y	Produce map showing all known MS3 outfalls, receiving waters and structural BMPs
		Y	Build mapping database, create SOP, and load data
		Y	Build data management and assessment tools, train data stewards.
		Y	Develop interagency field mapping SOPs
		Y	Assess data gaps and data quality
		N	Develop targeted interagency field mapping effort to fill data gaps, and upgrade data quality

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	8/15/08	8/18/08
Douglas Navetski	296-8311	10/31/08	10/30/08
Douglas Navetski	296-8311	12/31/08	1/10/09
Michael Kulish	296-8222	2/16/09	2/16/09
Michael Kulish/ Douglas Navetski	296-8222/ 296-8311	8/15/09	8/15/09
Michael Kulish/ Douglas Navetski	296-8222/ 296-8311	9/15/09	9/15/09
Michael Kulish/ Douglas Navetski	296-8222/ 296-8311	10/15/09	10/15/09
Michael Kulish/ Douglas Navetski	296-8222/ 296-8311	12/15/09	12/15/09
Michael Kulish/ Douglas Navetski	296-8222/ 296-8311	1/15/10	1/15/10

Permit Condition		Done: Yes/No	Compliance Action
S5C	2.b.i	Y	Initiate program to map connections points with other MS3s
			<b>Milestones:</b>
		Y	Estalish coordination mechanism for sharing mapping info
		Y	ROAD MAP to establish mapping coordination as 2009 goal
		N	ROADMAP Mapping committee to develop Standards
		N	ROADMAP Mapping committee to develop Standards

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	2/16/09	2/4/09
Douglas Navetski	296-8311	5/15/12	5/15/12
Douglas Navetski	296-8311	5/10/13	TBD

Permit Condition		Done: Yes/No	Compliance Action
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Responsible Party	Phone	Target Date	Date Completed
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## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	2.b.ii	N	Permittee shall map the attributes listed below for all storm sewer outfalls with a 24" inches nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems. King County mapping shall be done within urban/higher density rural sub-basins. Attributes mapped shall include: Land use, Tributary conveyances (indicate type, material, and size where known); and associated drainage areas.	Douglas Navetski	296-8311	2/16/11	2/16/11	
			Milestones:					
			Y	Determine urban/higher density rural sub-basins	Douglas Navetski	296-8311	1/8/08	1/8/08
			Y	Assess KC mapping inventory for relevant outfalls to determine program focus.	Douglas Navetski	296-8311	9/15/09	9/15/09
			Y	Review current GIS layers to determine extent of knowledge for land use, tributary conveyances, and associated drainage areas.	Douglas Navetski	296-8311	11/15/09	11/15/09
			Y	Initiate field mapping program to fill data gaps and missing attributes. Data entry occurs as attributes are collected.	Douglas Navetski	296-8311	11/15/09	11/15/09
			Y	Bi-Annual progress report to assess field program and data entry status	Douglas Navetski	296-8311	1/15/10	1/15/10
			N	Bi-Annual progress report to assess field program and data entry status	Douglas Navetski	296-8311	6/15/10	6/15/10
			N	progress report to assess field program and data entry status	Douglas Navetski	296-8311	1/15/11	1/15/11
			N	Assessment permit compliance	Douglas Navetski	296-8311	2/16/11	2/16/11
Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	2.b.iii	Y	Each Permittee shall initiate a program to develop and maintain a map of all connections to the municipal separate storm sewer authorized or allowed by the Permittee after the effective date of this permit.	Douglas Navetski	296-8311	2/16/07	1/1/92	
			Milestones:					
			Y	Required submittal of site plans to DDES upon permit application.	Douglas Navetski	296-8311	1/1/92	1/1/92
			Y	Require electronic submittals from applicants	Douglas Navetski	296-8311	8/16/07	1/1/08
			Y	Annual review to determine submissions occurring and being incorporated into KC mapping database.	Douglas Navetski	296-8311	2/8/10	2/8/10
			Y	Annual review to determine submissions occurring and being incorporated into KC mapping database.	Douglas Navetski	296-8311	2/8/11	2/8/11
			Y	Review historical records to determine submissions level of effort to incorporated into KC mapping database.	Douglas Navetski	296-8311	6/8/12	6/8/12
				Review historical records to determine submissions level of effort to incorporated into KC mapping database.	Douglas Navetski	296-8312	6/8/13	TBD
Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	2.b.iv	N	Each Permittee shall map existing, known connections over 8" to municipal separate storm sewers tributary to all storm sewer outfalls with a 24" inches nominal diameter or larger, or an equivalent cross-sectional area for non-pipe systems. King County shall map one half the area of the County within urban/higher density rural sub-basins.	Douglas Navetski	296-8311	2/16/11	2/16/11	
		<b>Milestones:</b>						
		Y	Determine urban/higher density rural sub-basins	Douglas Navetski	296-8311	1/8/08	1/8/08	
		Y	Acess KC mapping inventory for relevant connection points and outfalls to determine program focus.	Douglas Navetski	296-8311	9/15/09	9/15/09	
		Y	Initiate field mapping program to fill data gaps and missing attributes. Data entry occurs as attributes are collected.	Douglas Navetski	296-8311	11/15/09	11/15/09	
		Y	Bi-Annual progress report to assess field program and data entry status	Douglas Navetski	296-8311	1/15/10	1/15/10	
		N	Bi-Annual progress report to assess field program and data entry status	Douglas Navetski	296-8311	6/15/10	6/15/10	
		N	Final progress report to assess field program and data entry status	Douglas Navetski	296-8311	1/15/11	1/15/11	
		N	Assessment permit compliance	Douglas Navetski	296-8311	2/16/11	2/16/11	
<b>Permit Condition</b>		<b>Done: Yes/No</b>	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>	
S5C	2.b.v	N	Permittee shall map geographic areas served by the Permittee's MS4 that do not discharge stormwater to surface water.	Douglas Navetski	296-8311	2/16/11	2/16/11	
		<b>Milestones:</b>						
		Y	Acess KC mapping inventory for relevant geographic areas to determine program focus. UIC mapping program requirements to be met separately and not included here.	Douglas Navetski	296-8311	9/15/09	9/15/09	
		Y	Initiate field mapping program to fill data gaps. Data entry occurs as attributes are collected.	Douglas Navetski	296-8311	11/15/09	11/15/09	
		Y	Bi-Annual progress report to assess field program and data entry status	Douglas Navetski	296-8311	1/15/10	1/15/10	
		N	Bi-Annual progress report to assess field program and data entry status	Douglas Navetski	296-8311	6/15/10	6/15/10	
		N	Final progress report to assess field program and data entry status	Douglas Navetski	296-8311	1/15/11	1/15/11	
N	Assessment permit compliance	Douglas Navetski	296-8311	2/16/11	2/16/11			

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Work Group: Water & Land Resources Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Douglas Navetski  
 Email: [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
 Phone: 206-296-8311

Year 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	3.b.i	Y	Permittee shall establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/08	11/20/07
		Milestones:					
	Y	Implement Executive Order	Douglas Navetski	296-8311	11/20/07	11/20/07	
	Y	Review and Update of the Executive Order	Douglas Navetski	296-8311	4/15/10	4/15/10	
	Y	Review and Update of the Executive Order	Douglas Navetski	296-8311	9/15/10	9/15/10	
	Y	Review and Update of the Executive Order	Douglas Navetski	296-8311	9/15/11	9/15/11	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	3/31/2010	5/6/2010	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	9/30/2010	8/10/2010	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	11/31/10	11/10/2010	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	4/15/2011	4/28/2011	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	7/15/2011	7/20/11	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	10/15/2011	10/27/11	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	3/15/2012	3/7/12	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	6/15/2012	6/15/2012	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	9/15/2012	9/15/2012	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	12/15/2012	12/15/2012	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	3/15/2013	3/7/2013	
	Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	6/15/2013	TBD	

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	9/15/2013	TBD
Y	Lead quarterly permit lead meetings	Douglas Navetski	296-8311	12/15/2013	TBD

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	3.b.ii	Y	Coordination mechanisms clarifying roles and responsibilities for the control of pollutants between physically interconnected MS3s of the Permittee and any other Permittee covered by a municipal stormwater permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
			<b>Milestones:</b>				
		Y	Participate in regional efforts to coordinate pollution control including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/09	2/16/09
		Y	Participate in regional efforts to coordinate pollution control including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/10	2/16/10
		Y	Participate in regional efforts to coordinate pollution control including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/11	2/16/11
			Participate in regional efforts to coordinate pollution control including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/12	2/16/12
			Participate in regional efforts to coordinate pollution control including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/13	2/16/13
Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	3.b.ii	Y	Coordinating stormwater management activities for shared waterbodies, among Permittees and Secondary Permittees, to avoid conflicting plans, policies and regulations.	Douglas Navetski	296-8311	2/16/09	2/16/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Milestones:					
Y	Participate in regional efforts to coordinate stormwater management activities for shared waterbodies! including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/09	2/16/09
Y	Participate in regional efforts to coordinate stormwater management activities for shared waterbodies! including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/10	2/16/10
Y	Participate in regional efforts to coordinate stormwater management activities for shared waterbodies! including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/11	2/16/11
Y	Participate in regional efforts to coordinate stormwater management activities for shared waterbodies! including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/12	2/16/12
Y	Participate in regional efforts to coordinate stormwater management activities for shared waterbodies! including ROADMAP, Muni Permit Coordinators Meetings, APWA, Phase I Coordinators, WRIA's, etc. Tracked annually as opposed to tracked by individual meetings.	Douglas Navetski	296-8311	2/16/13	2/16/13

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Water & Land Resources Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Douglas Navetski  
 Email: [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
 Phone: 206-296-8311

Year: 2007-13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	4.b.i	No later than 6 months after the effective date of this permit, develop and begin implementing a process to create opportunities for the public to participate in processes involving the development, implementation and update of the Permittee's SWMP. Each Permittee shall develop and implement a process for consideration of public comments on their SWMP.	Douglas Navetski	296-8311	8/16/07	8/16/07
		<b>Milestones:</b>				
		Begin program to develop alternative public meeting and involvement process for SWMP Development.	Douglas Navetski	296-8311	8/16/07	8/16/07
		Begin development of Open House public meetings	Douglas Navetski	296-8311	10/15/07	10/15/07
		Implemented public notification program including newspaper notices, email notification, and website posting.	Douglas Navetski	296-8311	2/1/08	2/1/08
		Held public Open House meetings.	Douglas Navetski	296-8311	2/27/08	2/27/08
		Conduct online survey to solicit feedback on SWMP	Douglas Navetski	296-8311	2/10/08	2/10/08
		Establish email account for public comment	Douglas Navetski	296-8311	2/10/08	2/10/08
		Review, responded to and posted public comments.	Douglas Navetski	296-8311	4/5/08	4/5/08
		Begin program to develop comprehensive public meeting and involvement process for SWMP Development.	Douglas Navetski	296-8311	8/16/08	8/16/08
		Begin development of Open House public meetings	Douglas Navetski	296-8311	10/15/08	10/15/08
		Implemented public notification program including newspaper notices, email notification, and website posting.	Douglas Navetski	296-8311	2/1/09	2/1/09
		Held public Open House meetings.	Douglas Navetski	296-8311	2/27/09	2/27/09
		Conduct online survey to solicit feedback on SWMP	Douglas Navetski	296-8311	2/10/09	2/10/09
		Review, responded to and posted public comments.	Douglas Navetski	296-8311	4/5/09	4/5/09

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

	Begin program to develop comprehensive public meeting and involvement process for SWMP Development.	Douglas Navetski	296-8311	8/16/09	8/16/09
	Implemented public notification program including newspaper notices, email notification, and website posting.	Douglas Navetski	296-8311	2/1/10	2/1/10
	Develop new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	2/1/10	2/1/10
	Post new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	2/27/10	2/27/10
	Conduct online survey to solicit feedback on SWMP	Douglas Navetski	296-8311	3/10/10	3/10/10
	Review, responded to and posted public comments.	Douglas Navetski	296-8311	4/5/10	4/5/10
	Develop new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	1/15/11	1/15/11
	Post new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	2/1/11	2/1/11
	Conduct online survey to solicit feedback on SWMP	Douglas Navetski	296-8311	2/10/11	2/10/11
	Review, responded to and posted public comments.	Douglas Navetski	296-8311	4/5/11	4/5/11
	Develop new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	1/15/12	1/15/12
	Post new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	2/1/12	2/1/12
	Conduct online survey to solicit feedback on SWMP	Douglas Navetski	296-8311	2/10/12	2/10/12
	Review, responded to and posted public comments.	Douglas Navetski	296-8311	6/5/12	6/5/12
	Develop new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	1/15/13	1/15/13
	Post new SWMP public involvement videos for posting on KC DNRP website	Douglas Navetski	296-8311	2/1/13	2/1/13
	Conduct online survey to solicit feedback on SWMP	Douglas Navetski	296-8311	2/10/13	2/10/13
	Review, responded to and posted public comments.	Douglas Navetski	296-8311	6/5/13	TBD

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	4.b.ii	Y	Each Permittee shall make their SWMP, the SWMP documentation required under S5.A.1. and all submittals required by this permit, including annual reports, available to the public, starting with the first annual report, on the Permittee's website or submitted in electronic format to Ecology for posting on Ecology's website.	Douglas Navetski	296-8311	3/31/08	3/31/08

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Milestones:					
Y	Posted draft and submitted SWMP and appendices to detecated website.	Douglas Navetski	296-8311	2/1/08	2/1/08
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/08	3/31/08
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/08	3/31/08
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/09	3/31/09
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/09	3/31/09
	Posted draft and submitted SWMP and appendices to detecated website.	Douglas Navetski	296-8311	2/1/10	2/1/10
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/10	3/31/10
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/10	3/31/10
	Posted draft and submitted SWMP and appendices to detecated website.	Douglas Navetski	296-8311	2/1/11	2/1/11
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/11	3/31/11
	Posted final annual report to website	Douglas Navetski	296-8311	3/31/11	3/31/11
	Posted final annual report to website	Douglas Navetski	296-8312	3/31/12	3/31/12
	Posted final annual report to website	Douglas Navetski	296-8313	3/31/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Name Here Steve Foley  
**Email:** [Email Here](mailto:steve.foley@kingcounty.gov) [steve.foley@kingcounty.gov](mailto:steve.foley@kingcounty.gov)  
**Phone:** Phone # 206-296-1973

**Year** 2007 -13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	5.b. i-iv	<input checked="" type="radio"/> Yes <input type="radio"/> No Permittee shall adopt a local program that meets the requirements in S5.C.5.b.i through iii. Ecology review and approval of the local manual and ordinances is required. Permittees shall provide detailed, written justification of any of the requirements which differ from those contained in Appendix 1 of this permit.	Curt Crawford	296-8329	2/16/2008 - submittal 8-16-08 - implementation	1/15/09
		<b>Milestones:</b>				
		<input checked="" type="radio"/> Yes <input type="radio"/> No New draft regulations sent to DOE for review	Curt Crawford	296-8329	2/28/08	2/28/08
		<input type="radio"/> Yes <input type="radio"/> No DOE comments incorporated, ordinance and public rule adoption completed 2008	Curt Crawford	296-8329	12/31/08	1/15/09
		<input checked="" type="radio"/> Yes <input type="radio"/> No Participate in Permit Modification with DOE	Curt Crawford	296-8329	6/1/09	6/1/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No Permit Modification Issued granting equivalency	Curt Crawford	296-8329	7/29/09	7/29/09	
S5C	5.b.v	<input checked="" type="radio"/> Yes <input type="radio"/> No Permittee shall establish legal authority to inspect private stormwater facilities and enforce maintenance standards for all new development and redevelopment approved under the provisions of this section.	Curt Crawford	296-8329	8/16/08	8/16/08
		<input checked="" type="radio"/> Yes <input type="radio"/> No KCC Title 9 enacted	Curt Crawford	296-8329	1/1/92	1/1/92
		<input type="radio"/> Yes <input type="radio"/> No KCC Title 9 updated adopted to meet equivalency requirements	Curt Crawford	296-8329	8/16/08	1/1/09
S5C	5.b.vi	<input checked="" type="radio"/> Yes <input type="radio"/> No The program shall include a process of permits, plan review, inspections, and enforcement capability to meet the following standards for both private and public projects, using qualified personnel:	Steve Foley	296-1973	8/16/08	8/16/08
		<b>Milestones:</b>				
		<input checked="" type="radio"/> Yes <input type="radio"/> No Implement permit, plan review, inspections and enforcement program to meet permit requirements	Steve Foley	296-1973	8/16/08	8/16/08
	<input checked="" type="radio"/> Yes <input type="radio"/> No Meet with DDES to review Permit Modification	Steve Foley	296-1973	10/1/09	11/1/09	

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

<input checked="" type="radio"/> Yes <input type="radio"/> No	Identify any needed development review process changes	Jim Chan/Randy Sandin		11/1/09	11/1/08
<input type="radio"/> Yes <input type="radio"/> No	Implement any needed changes to development review process	Jim Chan/Randy Sandin		12/31/09	12/31/09

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	<input checked="" type="radio"/> Yes <input type="radio"/> No	Permittee shall make available the "Notice of Intent for Construction Activity" and/or copies of the "Notice of Intent for Industrial Activity" to representatives of proposed new development and redevelopment. Permittees will continue to enforce local ordinances controlling runoff from sites that are covered by other stormwater permits issued by Ecology.	Steve Foley	296-1973	2/16/07	2/16/07	
		<b>Milestones:</b>					
		<input checked="" type="radio"/> Yes <input type="radio"/> No	Enact NOI Program with DDES	Steve Foley	296-1973	2/16/07	2/16/07
		<input type="radio"/> Yes <input type="radio"/> No	KCC Title 9 enacted	Curt Crawford	296-8329	1/1/92	1/1/92
	<input checked="" type="radio"/> Yes <input type="radio"/> No	KCC Title 9 updated adopted to meet equivalency requirements	Curt Crawford	296-8329	8/16/08	1/1/09	

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	<input checked="" type="radio"/> Yes <input type="radio"/> No	Verify that training is documented	Steve Foley	296-1973	12/31/09	12/31/09	
		<b>Milestones:</b>					
		<input checked="" type="radio"/> Yes <input type="radio"/> No	Meet with DDES to review training requirements. Minimum Education requirements, CESCL, KCSWDM training.	Steve Foley	296-1973	6/1/09	6/1/09
		<input checked="" type="radio"/> Yes <input type="radio"/> No	Review Staff records to verify requirements met. I identify staff needing training to meet requirement.	Steve Foley	296-1973	6/1/09	6/1/09
		<input type="radio"/> Yes <input type="radio"/> No	Set up SWS training tracker	Steve Foley	296-1973	6/1/09	6/1/09
		<input type="radio"/> Yes <input type="radio"/> No	Schedule staff for mandatory training (CESCL & KCSWDM)	Steve Foley	296-1973	10/1/09	10/1/09
		<input type="radio"/> Yes <input type="radio"/> No	Training coordination meeting with SWS and DDES	Steve Foley	296-1973	11/1/09	11/1/09
		<input type="radio"/> Yes <input type="radio"/> No	Training coordination meeting with SWS and DDES	Luanne Coachman	684-1096	11/1/10	11/1/10
		<input type="radio"/> Yes <input type="radio"/> No	Training coordination meeting with SWS and DDES	Luanne Coachman	684-1096	11/1/11	11/1/11
				Luanne Coachman	684-1096	11/2/12	11/2/12
		Luanne Coachman	684-1096	11/2/13	TBD		

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Douglas Navetski  
**Email:** [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
**Phone:** 206-296-8311

Year	2007-2013
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Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	6.b.i & ii	i) No later than 1 year after the effective date of this permit, each Permittee shall develop a Structural Stormwater Control program designed to control stormwater impacts that are not adequately controlled by other required actions of the SWMP. Implementation of the program shall begin no later than 18 months after the effective date of this permit. Permittees shall provide a list of planned individual projects that are scheduled for implementation during the term of this permit. Updates and revisions to the list will be provided in the annual report.  ii) Each Permittee shall include a description of the Structural Stormwater Control Program in the written documentation of their SWMP.	Curt Crawford	296-8329	2/16/08 - Develop 8/16/08 - Implement	8/16/08	
		<b>Milestones:</b>					
		Develop list of planned individual projects		Curt Crawford	296-8329	2/1/09	2/1/09
		Update Annual Report with list of planned projects		Curt Crawford	296-8329	3/31/09	3/31/09
		Provide program info/goals/planning process for inclusion in SWMP document		Curt Crawford	296-8329	2/15/09	2/15/09
		Include program info in Draft SWMP and post to web for public review		Giles Pettifor	296-8354	2/20/09	2/1/08
		Submit Annual Report and SWMP to Ecology including structural control program info		Giles Pettifor	296-8354	3/31/09	3/31/09
		Request project information from relevant agencies. Information includes type, description, cost, benefit and status.		Curt Crawford	296-8329	1/1/10	1/1/10
		First draft of Appendix 2 produced		Curt Crawford	296-8329	1/15/10	1/15/10
		Final draft of Appendix 2 submitted to SWMP Coordinator		Curt Crawford	296-8329	2/1/10	2/1/10
		Submission of Appendix 2 to Ecology with SWMP submission		Curt Crawford	296-8329	3/31/10	3/31/10

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Request project information from relevant agencies. Information includes type, description, cost, benefit and status.	Curt Crawford	296-8329	1/1/11	1/1/11
First draft of Appendix 2 produced	Curt Crawford	296-8329	1/15/11	1/15/11
Final draft of Appendix 2 submitted to SWMP Coordinator	Curt Crawford	296-8329	2/1/11	2/1/11
Submission of Appendix 2 to Ecology with SWMP submission	Curt Crawford	296-8329	3/31/11	3/31/11
Request project information from relevant agencies. Information includes type, description, cost, benefit and status.	Curt Crawford	296-8329	1/1/12	1/1/12
First draft of Appendix 2 produced	Curt Crawford	296-8329	1/15/12	1/15/12
Final draft of Appendix 2 submitted to SWMP Coordinator	Curt Crawford	296-8329	2/29/12	2/29/12
Submission of Appendix 2 to Ecology with SWMP submission	Curt Crawford	296-8329	3/31/12	3/31/12
Request project information from relevant agencies. Information includes type, description, cost, benefit and status.	Curt Crawford	296-8329	1/1/13	1/1/13
First draft of Appendix 2 produced	Curt Crawford	296-8329	1/15/13	1/15/13
Final draft of Appendix 2 submitted to SWMP Coordinator	Curt Crawford	296-8329	2/29/2013	2/29/2013
Submission of Appendix 2 to Ecology with SWMP submission	Curt Crawford	296-8329	3/31/13	3/31/13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	6.b.iii	Provide project details for individual planned projects and programs	Curt Crawford	296-8329	2/1/09	2/1/09
		Milestones:				
		Determine estimated pollutant load reduction	Curt Crawford	296-8329	1/15/09	1/15/09
		Determine expected outcome, environmental benefits, monitoring needs	Curt Crawford	296-8329	1/15/09	1/15/09
		Incorporate above information into Appendix 2	Curt Crawford	296-8329	2/1/09	2/1/09
		Determine estimated pollutant load reduction	Curt Crawford	296-8329	1/15/10	1/15/10
		Determine expected outcome, environmental benefits, monitoring needs	Curt Crawford	296-8329	1/15/10	1/15/10
		Incorporate above information into Appendix 2	Curt Crawford	296-8329	2/1/10	2/1/10
		Determine estimated pollutant load reduction	Curt Crawford	296-8329	1/15/11	1/15/11
		Determine expected outcome, environmental benefits, monitoring needs	Curt Crawford	296-8329	1/15/11	1/15/11
		Incorporate above information into Appendix 2	Curt Crawford	296-8329	2/1/11	2/1/11
		Determine estimated pollutant load reduction	Curt Crawford	296-8329	1/1/12	1/1/12

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Determine expected outcome, environmental benefits, monitoring needs	Curt Crawford	296-8329	1/15/12	1/15/12
Incorporate above information into Appendix 2	Curt Crawford	296-8329	2/29/12	2/29/12
Determine expected outcome, environmental benefits, monitoring needs	Curt Crawford	296-8329	1/15/12	TBD
Incorporate above information into Appendix 3	Curt Crawford	296-8329	2/29/12	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Water & Land Resources Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Douglas Navetski  
 Email: [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
 Phone: 206-296-8311

Year: 2007-13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	7.b.i	<input checked="" type="radio"/> Yes <input type="radio"/> No King County adopt and begin enforcement of an ordinance, or other enforceable documents, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities	Douglas Navetski	296-8311	2/16/2008 - Develop 8-16-08 - Implement	8/16/08
		Milestones: <input checked="" type="radio"/> Yes <input type="radio"/> No Initiated Source Control program with the adoption of the Stormwater Pollution Prevention Manual (SPPM) and KCC Titles 9 & 23.	Douglas Navetski	296-8311	1/1/95	1/1/95
		<input checked="" type="radio"/> Yes <input type="radio"/> No SPPM and KCC Titles 9 & 23 adopted by KC Council to meet equivalency requirements	Douglas Navetski	296-8311	1/19/09	1/9/09
		<input checked="" type="radio"/> Yes <input type="radio"/> No SPPM and Titles 9 & 23 Granted equivalency by Ecology through permit modification	Douglas Navetski	296-8311	7/15/09	7/15/09
S5C	7.b.ii	<input checked="" type="radio"/> Yes <input type="radio"/> No King County will establish a program to identify sites which are potentially pollution generating. The program shall include: an inventory or listing of the land uses/businesses using the categories of land uses and businesses in Appendix 8. King County will periodically update the inventory as new businesses are identified and business ownership/management and responsibilities change. The program will include a complaint-based response to identify other pollutant generating sources.	Douglas Navetski	296-8311	2/16/08	2/16/08
		<input checked="" type="radio"/> Yes <input type="radio"/> No Establish business inventory based on stormwater business fee inventory	Douglas Navetski	296-8311	2/16/08	2/16/08
		<input type="radio"/> Yes <input type="radio"/> No Data mining of other sources to identify relevant businesses	Douglas Navetski	296-8311	3/31/10	3/31/10
		<input checked="" type="radio"/> Yes <input type="radio"/> No Update of inventory number for annual reporting purposes	Douglas Navetski	296-8311	5/15/08	5/15/08
		<input type="radio"/> Yes <input type="radio"/> No Update of inventory number for annual reporting purposes	Douglas Navetski	296-8311	5/15/09	5/15/09
		<input type="radio"/> Yes <input type="radio"/> No Update of inventory number for annual reporting purposes	Douglas Navetski	296-8311	5/15/10	5/15/10

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

<input type="radio"/> Yes <input type="radio"/> No	Update of inventory number for annual reporting purposes
<input checked="" type="radio"/> Yes <input type="radio"/> No	Establishment of complaint based response program
	Establishment of complaint based response program

Douglas Navetski	296-8311	5/15/11	5/15/11
Douglas Navetski	296-8311	6/15/12	6/15/12
Douglas Navetski	296-8312	6/16/13	TBD

Permit Condition	Done: Yes/No	Compliance Action
S5C	<input checked="" type="radio"/> Yes <input type="radio"/> No	Implement audit/inspection program for business inventory list
	<b>Milestones:</b>	
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Implement audit/inspection program for business inventory list
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Inspected 25% of target number (20% of Inventory)
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Inspected 50% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 75% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 100% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 25% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 50% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 75% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 100% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 25% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 50% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 75% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 100% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 25% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 50% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 75% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspected 100% of target number (20% of Inventory)
	<input type="radio"/> Yes <input type="radio"/> No	Inspect 100% of complaint sites
<input type="radio"/> Yes <input type="radio"/> No	Inspect 100% of complaint sites	
<input type="radio"/> Yes <input type="radio"/> No	Inspect 100% of complaint sites	
	Inspect 100% of complaint sites	

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	6/7/95	6/7/95
Douglas Navetski	296-8311	3/15/09	3/15/09
Douglas Navetski	296-8311	6/15/09	6/15/09
Douglas Navetski	296-8311	9/15/09	9/15/09
Douglas Navetski	296-8311	12/15/09	12/15/09
Douglas Navetski	296-8311	3/15/10	3/15/10
Douglas Navetski	296-8311	6/15/10	6/15/10
Douglas Navetski	296-8311	9/15/10	9/15/10
Douglas Navetski	296-8311	12/15/10	12/15/10
Douglas Navetski	296-8311	3/15/11	3/15/11
Douglas Navetski	296-8311	6/15/11	6/15/11
Douglas Navetski	296-8311	9/15/11	9/15/11
Douglas Navetski	296-8311	12/15/11	12/15/11
Douglas Navetski	296-8311	3/15/12	3/15/12
Douglas Navetski	296-8311	6/15/12	6/15/12
Douglas Navetski	296-8311	9/15/12	9/15/12
Douglas Navetski	296-8311	12/15/12	12/15/12
Ken Krank	296-8172	12/25/09	12/25/09
Ken Krank	296-8172	12/25/10	12/25/10
Ken Krank	296-8172	12/31/11	12/31/11
Ken Krank	296-8173	12/31/12	12/31/12

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

<input type="radio"/> Yes <input type="radio"/> No	Surveyed county records, windshield surveys, etc. for business inventory list
<input type="radio"/> Yes <input type="radio"/> No	Surveyed county records, windshield surveys, etc. for business inventory list
<input type="radio"/> Yes <input type="radio"/> No	Surveyed county records, windshield surveys, etc. for business inventory list
<input type="radio"/> Yes <input type="radio"/> No	Determine business inventory count
<input type="radio"/> Yes <input type="radio"/> No	Determine business inventory count
	Determine business inventory count
<input type="radio"/> Yes <input type="radio"/> No	Mass Mailing

Cynthia Hickey	263-6456	9/15/09	9/15/09
Cynthia Hickey	263-6456	9/15/10	9/15/10
Cynthia Hickey	263-6456	9/15/11	9/15/11
Douglas Navetski	296-8311	4/1/10	4/1/10
Douglas Navetski	296-8311	4/1/11	4/1/11
Douglas Navetski	296-8312	4/2/12	12/31/12
Douglas Navetski	296-8311	11/15/09	11/15/09

Permit Condition	Done: Yes/No	Compliance Action
S5C	<b>7.b.iv.</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No Implement progressive enforcement policy
		<b>Milestones:</b>
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Implemented progressive enforcement policy
	<input type="radio"/> Yes <input type="radio"/> No	Document Progressive Enforcement Program
	<input type="radio"/> Yes <input type="radio"/> No	Maintain records pertaining to progressive enforcement policy
	<input type="radio"/> Yes <input type="radio"/> No	Maintain records pertaining to progressive enforcement policy
	<input type="radio"/> Yes <input type="radio"/> No	Maintain records pertaining to progressive enforcement policy
		Maintain records pertaining to progressive enforcement policy
		Maintain records pertaining to progressive enforcement policy

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	6/7/95	6/7/95
Cynthia Hickey	263-6456	12/24/09	12/24/09
Cynthia Hickey	263-6456	12/24/09	12/24/09
Cynthia Hickey	263-6456	12/24/10	12/24/10
Cynthia Hickey	263-6456	12/31/11	12/31/11
Cynthia Hickey	263-6457	12/31/12	12/31/12
Cynthia Hickey	263-6457	12/31/13	TBD

Permit Condition	Done: Yes/No	Compliance Action
S5C	<b>7.b.v.</b>	<input checked="" type="radio"/> Yes <input type="radio"/> No Staff who implement source control program are trained
		<b>Milestones:</b>
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Assess training needs required for source control inspection staff
	<input type="radio"/> Yes <input type="radio"/> No	Assemble current training status on source control inspection staff
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Train source control inspection staff as needed and document training
	<input type="radio"/> Yes <input checked="" type="radio"/> No	Finalize training documentation
	<input type="radio"/> Yes <input checked="" type="radio"/> No	Annual review of training program needs
	<input type="radio"/> Yes <input checked="" type="radio"/> No	Annual review of training program needs
		Annual review of training program needs

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	2/16/09	2/16/09
Cynthia Hickey	263-6456	12/31/08	12/31/08
Cynthia Hickey	263-6456	2/16/09	2/16/09
Cynthia Hickey	263-6456	10/15/09	10/15/09
Cynthia Hickey	263-6456	4/15/10	4/15/10
Cynthia Hickey	263-6456	4/15/11	4/15/11
Cynthia Hickey	263-6457	4/15/12	4/15/12

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Annual review of training program needs

Cynthia Hickey

263-6458

4/16/13

TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Douglas Navetski  
**Email:** [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
**Phone:** 206-296-8311

Year	2007-2013
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Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	<input checked="" type="radio"/> Yes <input type="radio"/> No	Implement program to prevent, identify and respond to illicit connections and illicit discharges	Douglas Navetski	296-8311	2/16/07	2/16/99	
		<b>Milestones:</b>					
		Identify King County Agencies with responsibility for property management (custodial agencies) 777	Douglas Navetski	296-8311	2/16/07	2/16/07	
		<input type="radio"/> No	Review custodial agencies' IC/IDDE programs and identify gaps in programs and agencies without coverage. Address gaps and coverage issues.	Douglas Navetski	296-8311	12/31/08	12/31/08
		Develop Central IC/IDDE program to ensure minimum standards met in all custodial agencies.	Douglas Navetski	296-8311	1/10/10	1/10/10	
		Inspection and review of custodial agencies' IC/IDDE programs	Douglas Navetski	296-8311	11/30/10	11/30/10	
		Inspection and review of custodial agencies' IC/IDDE programs	Douglas Navetski	296-8311	11/30/11	11/30/11	
		Inspection and review of custodial agencies' IC/IDDE programs	Douglas Navetski	296-8311	11/30/12	11/30/12	
	Inspection and review of custodial agencies' IC/IDDE programs	Douglas Navetski	296-8312	11/30/13	TBD		

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	<input type="radio"/> Yes <input type="radio"/> No	Develop procedures for addressing pollutants entering the MS4 from an interconnected, adjoining MS4.	Douglas Navetski	296-8311	2/16/09	2/16/09
		<b>Milestones:</b>				
		Have program that coordinates spill response callout with neighboring jurisdictions.	Douglas Navetski	296-8311	2/16/09	2/16/09
		Institute IC/IDDE coordination group within ROADMAP	Douglas Navetski	296-8311	10/20/08	10/20/08
	Identify Spill coordinators in neighboring jurisdictions and develop call list posted to website	Douglas Navetski	296-8311	2/2/07	2/2/07	

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

	Develop regional IC/IDDE response protocols through ROADMAP or other regional venue
	Develop regional IC/IDDE response protocols through ROADMAP or other regional venue
	Develop regional IC/IDDE response protocols through ROADMAP or other regional venue

Douglas Navetski	296-8311	4/20/11	4/20/11
Douglas Navetski	296-8311	4/20/12	4/20/12
Douglas Navetski	296-8311	4/20/13	TBD

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.ii	Permittee shall evaluate, and if necessary update, existing ordinances or other regulatory mechanisms to effectively prohibit non-stormwater, illegal discharges, and/or dumping into the Permittee's municipal separate storm sewer system.
		<b>Milestones:</b>
		KCC Title 9 enacted
		KCC Title 9 updated adopted to meet equivalency requirements

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	8/16/08	8/16/93
Douglas Navetski	296-8311	1/1/92	1/1/92
Douglas Navetski	296-8311	8/16/08	1/1/09

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.iii	Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.
		<b>Milestones:</b>
		Identify first responders within custodial agencies.
		Review training records of first responders within custodial agencies to ensure all applicable staff were trained to identify, report and terminate
		Develop centralized tracking program and standardize training
		Provide training sessions for staff needing the training, initial or follow-up
		Review records to ensure all applicable staff were trained
		Provide training sessions for staff needing the training, initial or follow-up
		Review records to ensure all applicable staff were trained
		Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up		

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	8/16/08	8/16/08
Douglas Navetski	296-8311	2/15/08	2/15/08
Douglas Navetski	296-8311	2/15/08	2/15/08
Douglas Navetski	296-8311	9/15/09	9/15/09
Douglas Navetski	296-8311	5/15/10	5/15/10
Douglas Navetski	296-8311	2/15/10	2/15/10
Douglas Navetski	296-8311	5/15/11	5/15/11
Douglas Navetski	296-8311	2/15/11	2/15/11
Douglas Navetski	296-8312	6/15/13	TBD
Douglas Navetski	296-8313	9/15/13	TBD

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.iv	Implement training program for field staff who deal with IC/IDDE as part of normal job
		Milestones:
		Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.
		Review records to ensure all applicable staff are trained within custodial agencies to ensure all applicable staff were trained to identify, and report IC/IDDE.
		Develop centralized tracking program and standardize training
		Provide training sessions for staff needing the training, initial or follow-up
		Review records to ensure all applicable staff were trained
		Review records to ensure all applicable staff were trained
		Provide training sessions for staff needing the training, initial or follow-up
		Provide training sessions for staff needing the training, initial or follow-up
		Review records to ensure all applicable staff were trained
		Provide training sessions for staff needing the training, initial or follow-up
		Review records to ensure all applicable staff were trained

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	2/15/08	2/15/08
Douglas Navetski	296-8311	2/15/08	2/15/08
Douglas Navetski	296-8311	9/15/09	9/15/09
Douglas Navetski	296-8311	5/15/10	5/15/10
Douglas Navetski	296-8311	2/15/10	2/15/10
Douglas Navetski	296-8311	5/15/11	5/15/11
Douglas Navetski	296-8311	11/15/11	11/15/11
Douglas Navetski	296-8311	5/15/12	5/15/12
Douglas Navetski	296-8311	11/15/12	11/15/12
Douglas Navetski	296-8311	5/15/13	TBD
Douglas Navetski	296-8311	11/15/13	TBD

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.v	Permittee shall provide a publicly-listed, water quality citizen complaints/reports telephone number.
		Milestones:
		Institute the Waste Quality Complaint line 296-1900

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/07	2/16/95
Douglas Navetski	296-8311	2/16/95	2/16/95

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.vi (2)	prioritize outfalls and conveyances in urban/higher density rural sub-basins for screening and shall complete field screening for at least half of the conveyance systems in these areas

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/11	2/16/11

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Milestones:	
	Develop Outfall Reconnaissance Inventory (ORI) Standard Operating Procedures (SOP) for field operations and data management.
	Complete White Center Pilot Study being used to develop ORI SOP and field test methodologies.
	Institute ORI program
	Completed 50% of Urban/higher density rural sub-basin (50% of conveyance system)
	Completed 100% of Urban/higher density rural sub-basin (50% of conveyance system)
	Completed survey of rural sub-basin

Douglas Navetski	296-8311	7/15/09	7/15/09
Douglas Navetski	296-8311	9/1/09	9/1/09
Douglas Navetski	296-8311	4/15/10	4/15/10
Douglas Navetski	296-8311	9/30/10	10/25/10
Douglas Navetski	296-8311	9/30/11	9/30/11
Douglas Navetski	296-8311	9/30/11	10/25/10

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.vii	Have IC response program in place
Milestones:		
		Institute Illicit Connection Program through Stormwater Services and custodial agencies.

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/11	2/16/95
Douglas Navetski	296-8311	2/16/11	2/16/95

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.viii	Spill response program
Milestones:		
		Review each KC custodial agency program to ensure adequate spill response program in place.
		Continue development of regional spill response program in cooperation with other jurisdictions through ROADMAP
		Continue centralization of KC custodial agency spill response programs
		Continue centralization of KC custodial agency spill response programs
		Continue centralization of KC custodial agency spill response programs

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	8/16/07	8/16/98
Douglas Navetski	296-8311	8/16/07	8/16/07
Douglas Navetski	296-8311	8/16/10	8/16/10
Douglas Navetski	296-8311	8/16/11	8/16/11
Douglas Navetski	296-8311	8/17/12	8/17/12
Douglas Navetski	296-8312	8/18/13	TBD

Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.ix	Maintain records
Milestones:		
		Each custodial agency maintains own IC/IDDE records
		Develop central records tracking for IC/IDDE for all King County responses.

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	8/16/07	8/16/98
Douglas Navetski	296-8311	8/16/07	8/16/98
Douglas Navetski	296-8311	8/16/10	8/16/10

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dou Navetski  
**Email:**  
**Phone:**

**Year** 2007-2013

Permit Condition		Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.i.1	Permittee shall establish maintenance standards that are as protective or more protective of facility function than those specified in Chapter 4 of Volume V of the 2005 <i>Stormwater Management Manual for Western Washington</i> . For existing facilities which do not have maintenance standards, the Permittee shall develop a maintenance standard.	Curt Crawford	296-8329	8/16/08	8/16/08
		<b>Milestones:</b>				
		Establish and codify drainage maintenance standards in the SWDM per King County Code 9.04	Steve Foley	296-1973	1980's	1980's
		Update maintenance standards in the SWDM per King County Code 9.04	Steve Foley	296-1973	8/16/08	1/9/09
		Adopt Regional Road Maintenance Endangered Species Act (ESA) Program Guidelines - Regional Guidelines,	Rob Fritz	205-7107	1/1/02	1/1/02
		Review county facilities and practices for fuctions without maintenance standards.	Douglas Navetski	296-8311	Ongoing	Ongoing
		Develop maintenance standards.	Douglas Navetski	296-8311	Ongoing	Ongoing
S5C	9.b.i.2	Maintenance shall be performed on King County owned facilites: Within 1 year for facilities except catch basins; Within 6 months for catch basins; and, within 2 years for maintenance that requires capital construction of less than \$25,000.	Curt Crawford	296-8329	8/16/08	8/16/08
		<b>Milestones:</b>				
		Conduct Inspections on 75% of King County owned facilities	Ken Krank	296-8172	5/1/09	1/20/09
		Conduct Inspections on remaining 25% of King County owned facilities	Ken Krank	296-8172	11/30/09	1/20/09
		Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8172	1/20/09	1/20/09
		Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8172	3/1/09	3/1/09
		Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8172	6/1/09	6/1/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8172	10/1/09	10/1/09
Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8173	10/1/10	10/1/10
Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8174	10/1/11	10/1/11
Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8175	10/1/12	10/1/12
Meet regularly with King County DOT's Special Operations Unit to complete identified facility maintenance within established timeframes	Ken Krank	296-8176	10/1/13	TBD

Permit Condition	
S5C	<b>9.b.ii.1</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 18 months after the effective date of this permit, each Permittee shall evaluate and, if necessary, update existing ordinances or other enforceable documents requiring maintenance of all permanent stormwater treatment and flow control facilities regulated by the Permittee (including catch basins), in accordance with maintenance standards established under S5.C.9.b.i	Curt Crawford	296-8329	8/16/08	8/16/08
<b>Milestones:</b>				
Review KCC 9.04 and 9.12 to ensure this requirement adequately addresses maintenance and inspection access	Douglas Navetski	296-8311	8/16/08	8/16/08
Review KCC 9.04 and 9.12 to ensure this requirement adequately addresses maintenance and inspection access	Douglas Navetski	296-8311	8/16/10	8/16/10

Permit Condition	
S5C	<b>9.b.ii.2</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
Permittee shall develop and implement an initial inspection schedule for all known, permanent stormwater treatment and flow control facilities (other than catch basins) regulated by the Permittee to inspect each facility at least once during the terms of this permit to enforce compliance with adopted maintenance standards as needed based on the inspection.	Curt Crawford	296-8329	8/16/08	8/16/08
<b>Milestones:</b>				
SWS has already developed and implemented County inspection of all facilities are monitored annually.	K D Krank	206 296-8172	2/16/11	2/16/08

Permit Condition	
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Compliance Action	Responsible Party	Phone	Target Date	Date Completed
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### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

	<b>9.b.ii.3</b>	Conducts inspections on all known, permanent stormwater treatment and flow control facilities (other than catch basins) regulated by the Permittee. Currently the County alternates on site inspections of half the inventory with self-certified inspections on a two-year cycle. The County performs random spot checks to verify self-certified maintenance.	Curt Crawford	296-8329	2/16/11	2/16/11
		25 % of Inventory Inspected	K D Krank	206 296-8172	3/31/09	3/31/09
		50% of Inventory Inspected	K D Krank	206 296-8172	6/30/09	6/30/09
		75% of Inventory Inspected	K D Krank	206 296-8172	9/30/09	9/30/09
		50% of Self certification reports returned	K D Krank	206 296-8172	9/30/09	9/30/09
		100% of Inventory Inspected	K D Krank	206 296-8172	12/30/09	12/30/09
		100% of Self certification reports returned	K D Krank	206 296-8172	12/31/09	12/31/09
<b>Permit Condition</b>		<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
S5C	<b>9.b.ii.4</b>	No later than 2 years after the effective date of this permit, the Permittee shall manage maintenance activities to inspect all permanent stormwater treatment and flow control facilities, including catch basins, in new residential developments every 6 months during the period of heaviest construction to identify maintenance needs and enforce compliance with maintenance standards as needed.	Curt Crawford	296-8329	2/16/09	2/16/09
		<b>Milestones:</b>				
		SWS implemented a maintenance/defect (M/D) inspection program to ensure that developers maintain public improvements during a two-year post-construction period historically found to require continued high maintenance so that the facilities are in good working order when their ownership transfers to the County	K D Krank	206 296-8172	2/16/05	2/16/08
		Quarterly Inspection of Inventory	K D Krank	206 296-8172	3/31/09	3/31/09
		Quarterly Inspection of Inventory	K D Krank	206 296-8172	6/30/09	6/30/09
		Quarterly Inspection of Inventory	K D Krank	206 296-8172	9/30/09	9/30/09
		Quarterly Inspection of Inventory	K D Krank	206 296-8172	12/30/09	12/30/09
		Quarterly Inspection of Inventory	K D Krank	206 296-8172	3/31/10	3/31/10

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Quarterly Inspection of Inventory	K D Krank	206 296-8172	6/30/10	6/30/10
Quarterly Inspection of Inventory	K D Krank	206 296-8172	9/30/10	9/30/10
Quarterly Inspection of Inventory	K D Krank	206 296-8172	12/30/10	12/30/10
Quarterly Inspection of Inventory	K D Krank	206 296-8172	3/31/11	3/31/11
Quarterly Inspection of Inventory	K D Krank	206 296-8172	6/30/11	6/30/11
Quarterly Inspection of Inventory	K D Krank	206 296-8172	9/30/11	9/30/11
Quarterly Inspection of Inventory	K D Krank	206 296-8172	12/30/11	12/30/11
Quarterly Inspection of Inventory	K D Krank	206 296-8172	3/31/12	3/31/12
Quarterly Inspection of Inventory	K D Krank	206 296-8172	6/30/12	6/30/12
Quarterly Inspection of Inventory	K D Krank	206 296-8172	9/30/12	9/30/12
Quarterly Inspection of Inventory	K D Krank	206 296-8172	12/31/12	12/31/12
Quarterly Inspection of Inventory	K D Krank	206 296-8172	3/31/13	3/31/13
Quarterly Inspection of Inventory	K D Krank	206 296-8172	6/30/13	TBD
Quarterly Inspection of Inventory	K D Krank	206 296-8172	9/30/13	TBD
Quarterly Inspection of Inventory	K D Krank	206 296-8172	12/31/13	TBD

Permit Condition	
S5C	9.b.ii.5

<b>Compliance Action</b>
Compliance with the inspection requirements of S5.C.9.b.ii.(2), (3), and (4) shall be determined by the presence of an established inspection program designed to inspect all sites and achieving inspection of 95% of all sites.
<b>Milestones:</b>
The programs described S5.C.9.b.ii.(2), (3), and (4), above currently meet this requirement

<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
Curt Crawford	296-8329	2/16/09	2/16/09
K D Krank	206 296-8172	2/16/09	2/16/08

Permit Condition	
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<b>Compliance Action</b>
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<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
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## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	<b>9.b.ii.6</b>
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<p>The Permittee shall require cleaning of catch basins regulated by the Permittee if they are found to be out of compliance with established maintenance standards in the course of inspections conducted at facilities under the requirements of S5.C.7 and S5.C.8. (Illicit Connections and Illicit Discharges Detection and Elimination) or if the catch basins are part of the treatment or flow control system inspected under the requirements of S5C.9.</p>	Curt Crawford	296-8329	2/16/07	2/16/07
<b>Milestones:</b>				
King County requires the cleaning of catch basins regulated by the County when they are found to be out of compliance with the maintenance standards in Appendix A of the SWDM. This is done through the Maintenance Compliance Letter (MCL) program	K D Krank	206 296-8172	2/16/07	2/16/07
Check on the MCL program status	K D Krank	206 296-8172	1/30/09	1/30/09
Check on the MCL program status	K D Krank	206 296-8172	4/1/09	4/1/09
Check on the MCL program status	K D Krank	206 296-8172	9/9/09	9/9/09
Check on the MCL program status	K D Krank	206 296-8172	Ongoing	Ongoing

Permit Condition	
S5C	<b>9.b.iii.1</b>

	Responsible Party	Phone	Target Date	Date Completed
<b>Compliance Action</b>				
Permittee shall begin implementing a program to annually inspect all permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee, and implement appropriate maintenance action in accordance with adopted maintenance standards.	Curt Crawford	296-8329	2/16/09	2/16/09
<b>Milestones:</b>				
The SWS Section currently manages the inspection program for flow control and water quality facilities throughout unincorporated King County. SWS also inspect facilities owned and operated by other custodial agencies.	K D Krank	206 296-8172	2/16/07	2/16/07
Initiate program with custodial agencies to address the inspection and maintenance needs for King County facilities owned by custodial agencies and located in other jurisdictions.	Douglas Navetski	296-8311	11/20/09	1/20/09
Initiate coordination program with other jurisdictions to address the inspection and maintenance needs for King County facilities located in other jurisdictions.	Douglas Navetski	296-8311	1/20/09	1/20/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Complete inspection program for facilities located in unincorporated King County.	K D Krank	206 296-8172	9/30/09	9/30/09
Draft Inter-jurisdictional and Intra-Angeny agreements to address the inspection and maintenance needs for King County facilities located in other jurisdictions.	Douglas Navetski	296-8311	10/20/09	10/20/09

Permit Condition	
S5C	9.b.iii.2

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 24 months after the effective date of this program, each Permittee shall begin implementing a program to conduct spot checks of potentially damaged permanent treatment and flow control facilities (other than catch basins) after major storm events (24 hour storm events with a 10 year recurrence interval). <b>Milestones:</b> SWS inspects and maintains facilities serving residential subdivisions, certain regional facilities, and all other stormwater control and treatment facilities owned or operated by the County and spot checks 40 - 60 facilities after major storm events.	Curt Crawford	296-8329	2/16/09	2/16/09
	K D Krank	206 296-8172	2/16/09	2/16/07

Permit Condition	
	9.b.iii.3

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
Compliance with the inspection requirements of S5.C.9.iii.(1) and (2) above shall be determined by the presence of an established inspection program designed to inspect all sites and achieving inspection of 95% of all sites.	Curt Crawford	296-8329	2/16/08	2/16/08
The SWS program currently meets the inspection requirements of S5.C.9.b.iii.(1), and (2).	K D Krank	206 296-8172		

Permit Condition	
S5C	9.b.iv.1

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
Permittee shall begin implementing a program to annually inspect catch basins and inlets owned or operated by the Permittee. <b>Milestones:</b> SWS has no stand alone CB's all cb's are intigral to the facility and inspected and mainteened as part of the Facility Inspection Program (S5.C9.b.iii.1)	Douglas Navetski	296-8311	2/16/09	2/16/09
Implement CB inspection program	K D Krank	206 296-8172		
Annually inspect CBs	K D Krank	206 296-8172	8/15/08	8/15/08
Provide SWS with status and results of CB annual inspections	K D Krank	206 296-8172	2/16/09	2/16/09
	K D Krank	206 296-8172	ongoing	ongoing

Permit Condition	
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Compliance Action	Responsible Party	Phone	Target Date	Date Completed
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## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

	<b>9.b.iv.2</b>
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Submission of records to support alternate catch basin inspection and maintenance program.

NA

Douglas Navetski	296-8311	2/16/09	2/16/09

Permit Condition	
S5C	<b>9.b.iv.3</b>

**Compliance Action**

The disposal of decant water shall be in accordance with the requirements in Appendix 6 – *Street Waste Disposal*.

**Milestones:**  
Kig King has had a Decant Disposal Program with 3 decant station plumbed to sanitary sewer for liquids disposal.

Responsible Party	Phone	Target Date	Date Completed
Curt Crawford	296-8329	1/195	1/195
Louise Pitell		1/195	1/195

Permit Condition	
S5C	<b>9.b.v</b>

**Compliance Action**

Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.

**Milestones:**  
Custodial agency permit leads to track and maintain relevant information regarding qualifying projects  
Annually submit information to permit coordinator at SWS  
Report qualifying construction project list in annual report  
Report qualifying construction project list in annual report  
Report qualifying construction project list in annual report  
Report qualifying construction project list in annual report

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/08	2/16/08
Douglas Navetski	296-8311	2/1/08	2/1/08
Douglas Navetski	296-8311	12/12/09	12/12/09
Giles Pettifor		3/31/10	3/31/10
Giles Pettifor		3/31/11	3/31/11
Giles Pettifor		3/31/12	3/31/12
Giles Pettifor		3/31/13	3/31/13

Permit Condition	
S5C	<b>9.b.vi</b>

**Compliance Action**

Establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee

**Milestones:**  
Implement Stormwater Pollution Prevention Manual  
Develop Draft SiMPla

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/08	2/16/08
Douglas Navetski	296-8311	6/17/05	6/17/05
Douglas Navetski	296-8311	5/17/09	5/17/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Permit Condition	
S5C	<b>9.b.vi</b>

Finalize Implement SiMPla
Review Equivalent Programs Adopted by Custodial Agencies
Revise Simpla when needed

Douglas Navetski	296-8311	11/15/09	11/15/09
Douglas Navetski	296-8311	2/15/10	2/15/10
Douglas Navetski	296-8311	3/1/12	3/1/12

Compliance Action
Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit
Milestones:
Implement SPPM
Implement SiMPla
Develop spot check implementation program to determine implementation and effectiveness of SiMPla

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/08 - Establish 8/16/2008 - Implement	2/16/08
Douglas Navetski	296-8311	6/17/05	6/17/05
Douglas Navetski	296-8311	11/30/09	11/30/09
Douglas Navetski	296-8311	3/7/10	3/7/10

Permit Condition	
S5C	<b>9.b.vii</b>

Compliance Action
Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.
Milestones:
Implement SPPM
Implement IPM
Implement SiMPla

Responsible Party	Phone	Target Date	Date Completed
Curt Crawford	296-8329	8/16/08	8/16/08
Douglas Navetski	296-8311	1/15/95	1/15/95
Douglas Navetski	296-8311	11/12/99	11/12/99
Douglas Navetski	296-8311	11/30/09	11/30/09

Permit Condition	
S5C	<b>9.b.viii</b>

Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.
Milestones:
ESA Guidelines

Douglas Navetski	296-8311	2/16/09	2/16/09
Douglas Navetski	296-8311	6/21/95	6/21/95

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Confirm presence and relevance of custodial agency training	Douglas Navetski	296-8311	10/10/08	10/10/08
Development of Centralized Minimum Standards Training	Douglas Navetski	296-8311	1/15/10	1/15/10
Implementation of Minimum Standards Training	Douglas Navetski	296-8311	3/15/10	3/15/10
<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Identify applicable facilities owned/operated by custodial agencies	Douglas Navetski	296-8311	4/1/08	4/1/08
Assign SWPPP Development to appropriate Custodial Agencies	Douglas Navetski	296-8311	6/15/08	6/15/08
Confirm completion and Implementation of SWPPPs	Douglas Navetski	296-8311	2/1/09	2/1/09

Permit Condition	
S5C	9.b.xi

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Water & Land Resources Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Douglas Navetski  
**Email:** [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
**Phone:** 206-296-8311

Year	2009
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Permit Condition	Done: Yes/No	Compliance Action
S7A	<input checked="" type="radio"/> Yes <input type="radio"/> No	For applicable TMDLs listed in Appendix 2, affected Permittees shall comply with the specific requirements identified in Appendix 2. Each Permittee shall keep records of all actions required by this permit that are relevant to applicable TMDLs within their jurisdiction. The status of the TMDL implementation shall be included as part of the annual report submitted to Ecology.
	<b>Milestones:</b> <input checked="" type="radio"/> Yes <input type="radio"/> No	No TMDL's listed in Appendix 2 are located within King County

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	3/31/08	3/31/08
Douglas Navetski	296-8311	N/A	N/A

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Water & Land Resources Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Douglas Navetski  
 Email: [doug.navetski@kingcounty.gov](mailto:doug.navetski@kingcounty.gov)  
 Phone: 206-296-8311

Year	2007-2012
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Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
<b>S9</b>	<b>A</b>	No later than March 31, of each year beginning in 2008, each Permittee shall submit an annual report. The reporting period for the first annual report will be from the effective date of this permit through December 31, 2007. The reporting period for all subsequent annual reports shall be the previous calendar year.	Douglas Navetski	296-8311	3/31/10	3/31/10
		<b>Milestones:</b>				
		Prepare draft annual report for internal review	Giles Pettifor	296-8354	2/15/10	2/15/10
		Complete internal review	Douglas Navetski	296-8311	3/15/10	3/15/10
		<input checked="" type="radio"/> Yes <input type="radio"/> No Prepare final annual report and submit to Ecology by March 31	Douglas Navetski	296-8311	3/31/11	3/31/11
		<input checked="" type="radio"/> Yes <input type="radio"/> No Prepare final annual report and submit to Ecology by March 31	Douglas Navetski	296-8311	3/31/12	3/31/12
		Prepare final annual report and submit to Ecology by March 31	Douglas Navetski	296-8311	3/31/13	3/31/13
<b>S9</b>	<b>B</b>	Two printed copies and an electronic (PDF) copy of the annual report shall be submitted to Ecology.	Douglas Navetski	296-8311	3/31/08	3/31/08
		<b>Milestones:</b>				
		<input checked="" type="radio"/> Yes <input type="radio"/> No Two printed copies and an electronic (PDF) copy of the annual report are submitted to Ecology on the schedule cited in S9.A.	Douglas Navetski	296-8311	3/31/08	3/31/08
		Two printed copies and an electronic (PDF) copy of the annual report are submitted to Ecology on the schedule cited in S9.A.	Douglas Navetski	296-8311	3/31/09	3/31/09
		Two printed copies and an electronic (PDF) copy of the annual report are submitted to Ecology on the schedule cited in S9.A.	Douglas Navetski	296-8311	3/31/10	3/31/10
		Two printed copies and an electronic (PDF) copy of the annual report are submitted to Ecology on the schedule cited in S9.A.	Douglas Navetski	296-8311	3/31/11	3/31/11
		Two printed copies and an electronic (PDF) copy of the annual report are submitted to Ecology on the schedule cited in S9.A.	Douglas Navetski	296-8311	3/31/12	3/31/12

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

			Two printed copies and an electronic (PDF) copy of the annual report are submitted to Ecology on the schedule cited in S9.A.	Douglas Navetski	296-8311	3/31/13	3/31/13	
S9	C	<input type="radio"/> Yes <input checked="" type="radio"/> No	Each Permittee is required to keep all records related to this permit and the SWMP for at least five years. Except as required as a condition of the annual reports, records need to be submitted to Ecology only upon request.	Douglas Navetski	296-8311	3/31/08	3/31/08	
		<b>Milestones:</b>						
		<input checked="" type="radio"/> Yes <input type="radio"/> No	Maintain all records related to implementation and monitoring of compliance of permit	Douglas Navetski	296-8311	3/31/08	3/31/08	
		<input checked="" type="radio"/> Yes <input type="radio"/> No	Communicate to KC permit leads the need to maintain all records related to permit implementation for possible review for 5 years	Douglas Navetski	296-8311	3/31/08	3/31/08	
S9	D	<input checked="" type="radio"/> Yes <input type="radio"/> No	Each Permittee shall make all records related to this permit and the Permittee's SWMP available to the public at reasonable times during business hours. The Permittee will provide a copy of the most recent annual report to any individual or entity, upon request.	Douglas Navetski	296-8311	3/31/08	3/1/08	
		<b>Milestones:</b>						
		<input checked="" type="radio"/> Yes <input type="radio"/> No	Post SWMP and Annual Report online on KC website and maintain and update with subsequent submittals	Douglas Navetski	296-8311	3/31/08	3/1/08	
			Post SWMP and Annual Report online on KC website and maintain and update with subsequent submittals	Douglas Navetski	296-8311	3/31/09	3/31/09	
			Post SWMP and Annual Report online on KC website and maintain and update with subsequent submittals	Douglas Navetski	296-8311	3/31/10	3/31/10	
			Post SWMP and Annual Report online on KC website and maintain and update with subsequent submittals	Douglas Navetski	296-8311	3/31/11	3/31/11	
			Post SWMP and Annual Report online on KC website and maintain and update with subsequent submittals	Douglas Navetski	296-8311	3/31/12	3/31/12	
			Post SWMP and Annual Report online on KC website and maintain and update with subsequent submittals	Douglas Navetski	296-8312	3/31/13	3/31/13	

Yes  No

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S9	E	<p>For each component of the SWMP the Permittee shall include the following: a. Describe the current implementation status including whether the Permittee has met the required implementation deadlines. If permit deadlines are not met, Permittees shall report the reasons why the requirement was not met and how the requirements will be met in the future. b. Compare program implementation results to the performance standards established in the permit. c. A summary of the number and nature of inspections performed by the Permittee as required by S5.C.5., S5.C.7., and S5.C.9. d. A summary of the nature and number of official enforcement actions taken to enforce provisions of this permit. The above information shall be submitted in a format approved by Ecology. 3. A summary of any actions taken by the Permittee pursuant to S4.F.</p>	Douglas Navetski	296-8311	3/31/08	3/31/08
		<p>4. A summary of the status of any TMDL implementation requirements and any associated monitoring as required by S7.A. 5. The Stormwater Monitoring Report required pursuant to S8.H. 6. Any reporting requirements associated with S8.B. not included elsewhere in the annual report. 7. If the Permittee is relying on another governmental entity to satisfy any of the obligations under this permit provide the name of the other entity and a description of the permit requirements performed by the other entity. 8. Notification of any annexations, incorporations or jurisdictional boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP. 9. The annual report shall include certification and signature pursuant to G19.D, and notification of any changes to authorization pursuant to G19.C. 10. A summary of barriers to implementation of LID and actions taken to remove the barriers. 11. A summary of the extent to which basin or watershed planning is being conducted in the Permittee's jurisdiction, either voluntarily, or pursuant to the Growth Management Act (Chapter 36.70A RCW) or any other requirement. 12. In the annual report for calendar year 2010, the Permittee shall identify areas for potential basin or watershed planning that can incorporate development strategies as a water quality management tool to protect aquatic resources.</p>				
		<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>Include the required elements as Appendices of SWMP</p>	Douglas Navetski	296-8311	3/31/08	3/31/08

**King County NPDES Muni Stormwater Permit**

**Permit Compliance Tracking Form**

<input type="radio"/> Yes <input type="radio"/> No		Douglas Navetski	296-8311		
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# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Parks & Recreation Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dave Sizemore  
**Email:** [david.sizemore@kingcounty.gov](mailto:david.sizemore@kingcounty.gov)  
**Phone:**

<b>Permit Cycle</b>	2007-13
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<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Map all known MS3 outfalls, receiving waters, Structural BMPs
<b>Milestones:</b>
Submit required mapping info to mapping committee for master County drainage database
Update master County drainage database with new mapping info as available
Participate in technical committee develop list of elements & taxonomy
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping discussions & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Dave Sizemore	205-7549	8/15/08	8/18/08
Dave Sizemore	205-7549	10/31/08	10/30/08
Dave Sizemore	205-7549	12/31/08	1/10/09
Dave Sizemore	205-7549	6/31/10	6/31/10
Dave Sizemore	205-7549	9/31/10	9/31/10
Dave Sizemore	205-7549	12/31/2010	12/31/2010
Dave Sizemore	205-7549	6/31/11	6/31/11
Dave Sizemore	205-7549	6/31/12	6/31/12
Dave Sizemore	205-7549	9/31/12	9/31/12
Dave Sizemore	205-7549	6/31/13	TBD
Dave Sizemore	205-7549	9/31/13	TBD

<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Initiate program to map connections points with other MS3s
<b>Milestones:</b>
Ensure that drainage system mapping data for parks facilities are in county drainage mapping database
Ensure that drainage system mapping data for parks facilities are in county drainage mapping database
Ensure that drainage system mapping data for parks facilities are in county drainage mapping database
Ensure that drainage system mapping data for parks facilities are in county drainage mapping database
Ensure that drainage system mapping data for parks facilities are in county drainage mapping database

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Dave Sizemore	205-7549	2/16/09	2/16/09
Dave Sizemore	205-7549	5/15/10	5/15/10
Dave Sizemore	205-7549	5/15/11	5/15/11
Dave Sizemore	205-7549	5/15/12	5/15/12
Dave Sizemore	205-7549	5/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Parks & Recreation Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dave Sizemore  
**Email:** [david.sizemore@kingcounty.gov](mailto:david.sizemore@kingcounty.gov)  
**Phone:** 205-7549

<b>Year</b>	2007-13
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<b>Permit Condition</b>	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Dave Sizemore	(206) 205-7549	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Dave Sizemore	(206) 205-7549	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Dave Sizemore	(206) 205-7549	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Dave Sizemore	(206) 205-7549	12/31/07	11/8/07
Participate in coordination meetings with Permit staff	Dave Sizemore	(206) 205-7549	10/31/2008	2/1/2008
Participate in coordination meetings with Permit staff	Dave Sizemore	(206) 205-7549	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	6/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Participate in quarterly permit lead meetings	Dave Sizemore	(206) 205-7549	9/15/2013	TBD
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# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Parks & Recreation Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dave Sizemore  
**Email:** [david.sizemore@kingcounty.gov](mailto:david.sizemore@kingcounty.gov)  
**Phone:** 206-7549

<b>Permit Cycle</b>	2007-2013
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Permit Condition	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C 8.b.iii	Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.	Dave Sizemore	(206) 205-7549	8/16/08	8/16/08
	<b>Milestones:</b>				
	Identify first responders within Parks.	Dave Sizemore	(206) 205-7549	2/15/08	2/15/08
	Review training records of first responders to ensure all applicable staff were trained to identify, report and terminate	Dave Sizemore	(206) 205-7549	2/15/08	2/15/08
	Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	5/15/10	5/15/10
	Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	2/15/10	2/15/10
	Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	6/15/11	6/15/11
	Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	11/15/11	11/15/11
	Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	11/15/12	11/15/12
	Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	12/15/12	12/15/12
	Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	11/15/13	TBD
	Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	12/15/13	TBD
	S5C 8.b.iv	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>
Implement training program for field staff who deal with IC/IDDE as part of normal job		Dave Sizemore	(206) 205-7549	2/16/09	2/16/09
S5C 8.b.iv	<b>Milestones:</b>				
	Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.	Dave Sizemore	(206) 205-7549	2/15/08	2/15/08

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Review records to ensure all applicable staff are trained within Parks to ensure all applicable staff were trained to identify, and report IC/IDDE.	Dave Sizemore	(206) 205-7549	2/15/08	2/15/08
Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	5/15/10	5/15/10
Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	2/15/10	2/15/10
Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	5/15/11	5/15/11
Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	2/15/11	2/15/11
Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7550	9/15/12	9/15/12
Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	11/15/12	11/15/12
Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7550	9/15/13	TBD
Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	11/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Parks and Recreation  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dave Sizemore  
**Email:** [david.sizemore@kingcounty.gov](mailto:david.sizemore@kingcounty.gov)  
**Phone:** 206-7549

**Permit Cycle:** 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.v	Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.	Douglas Navetski	68311	2/16/08	2/16/08
		<b>Done: Yes/No</b> Milestones:				
		Track and maintain relevant information regarding qualifying projects	Dave Sizemore	(206) 205-7549	12/31/09	12/31/09
		Annually submit information to permit coordinator at SWS	Dave Sizemore	(206) 205-7549	12/31/09	12/31/09
		Annually submit information to permit coordinator at SWS	Dave Sizemore	(206) 205-7549	1/15/11	1/15/11
		Annually submit information to permit coordinator at SWS	Dave Sizemore	(206) 205-7549	2/15/12	2/15/12
		Annually submit information to permit coordinator at SWS	Dave Sizemore	(206) 205-7549	2/15/13	2/15/13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vi	Establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee	Douglas Navetski	68311	2/16/08	2/16/08
		<b>Done: Yes/No</b> Milestones:				
		Develop practices to implement Stormwater Pollution Prevention Manual	Dave Sizemore	(206) 205-7549	6/17/05	6/17/05
		Review document and implementation feasibility of SIMPLA	Dave Sizemore	(206) 205-7549	11/1/09	11/1/09

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vi	Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit	Douglas Navetski	68311	8/16/08	8/16/08
		<b>Done: Yes/No</b> Milestones:				

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Implement SPPM	Dave Sizemore	(206) 205-7549	6/17/05	6/17/05
Implement SiMPla	Dave Sizemore	(206) 205-7549	11/30/09	11/30/09

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vii		Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.	Douglas Navetski	68311	8/16/08	8/16/08
			<b>Milestones:</b>				
			Begin implementation of SPPM	Dave Sizemore	(206) 205-7549	1/15/95	1/15/95
			Begin implementation of IPM	Dave Sizemore	(206) 205-7549	11/15/99	11/15/99
	Begin implementation of SiMPla	Dave Sizemore	(206) 205-7549	11/30/09	11/30/09		

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.viii		Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.	Douglas Navetski	68311	2/16/09	2/16/09
			<b>Milestones:</b>				
			Review training records of all applicable staff	Dave Sizemore	(206) 205-7549	6/1/08	6/1/08
			Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	10/10/08	10/10/08
			Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	3/15/10	3/15/10
			Provide training sessions for staff needing the training, initial or follow-up	Dave Sizemore	(206) 205-7549	3/15/11	3/15/11
			Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	6/15/12	6/15/12
	Review records to ensure all applicable staff were trained	Dave Sizemore	(206) 205-7549	6/15/13	TBD		

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.xi		Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.	Douglas Navetski	68311	2/16/09	2/16/09
		Done: Yes/No	Milestones:				
			Determine if Parks owns/operates any applicable facilities	Dave Sizemore	(206) 205-7549	6/15/08	6/15/08
			Develop SWPPP if determined needed	Dave Sizemore	(206) 205-7549	8/15/08	8/15/08
			Implement SWPPP if needed	Dave Sizemore	(206) 205-7549	9/15/08	9/15/08

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Solid Waste Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dinah Day  
**Email:** [dinah.day@kingcounty.gov](mailto:dinah.day@kingcounty.gov)  
**Phone:** 269-0484

<b>Permit Cycle</b>	2007-13
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Permit Condition		YES/NO	Compliance Action
S5C	2.b.i	Y	Map all known MS3 outfalls, receiving waters, Structural BMPs
			<b>Milestones:</b>
		Y	Submit required mapping info to mapping committee for master County drainage database
		Y	Update master County drainage database with new mapping info as available
		Y	Participate in technical committee develop list of elements & taxonomy
		Y	Participate in Mapping Oversight Committee & submit new data
		Y	Participate in Mapping Oversight Committee & submit new data
		Y	Participate in Mapping Oversight Committee & submit new data
		Y	Participate in Mapping Oversight Committee & submit new data
		Y	Participate in Mapping Oversight Committee & submit new data
		Y	Participate in Mapping Oversight Committee & submit new data
		N	Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Terri Barker	296-8475	8/15/08	8/18/08
Terri Barker	296-8475	10/31/08	10/30/08
Terri Barker	296-8475	12/31/08	1/10/09
Terri Barker	296-8475	6/31/10	6/31/10
Dinah Day	296-0484	9/31/10	9/31/10
Dinah Day	296-0484	12/31/2010	12/31/2010
Dinah Day	296-0484	3/31/2011	3/31/2011
Dinah Day	296-0484	9/31/11	9/31/11
Dinah Day	296-0484	4/15/2012	4/15/2012
Dinah Day	296-0484	4/15/2013	TBD

Permit Condition		YES/NO	Compliance Action
S5C	2.b.i	Y	Initiate program to map connections points with other MS3s
			<b>Milestones:</b>
		Y	Ensure that drainage system mapping data for SWD is in county drainage mapping database
		Y	Ensure that drainage system mapping data for SWD is in county drainage mapping database
		Y	Ensure that drainage system mapping data for SWD is in county drainage mapping database
		N	Ensure that drainage system mapping data for SWD is in county drainage mapping database

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Terri Barker	296-8475	2/16/09	2/16/09
Terri Barker	296-8475	5/15/10	5/15/10
Dinah Day	269-0484	5/15/11	5/15/11
Dinah Day	269-0484	5/15/12	5/15/12
Dinah Day	269-0484	5/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group	Work Group	Solid Waste Division
Dept:	Dept:	Natural Resources & Parks
Permit Lead:	Permit Lead:	Dinah Day
Email:	Email:	<a href="mailto:dinah.day@kingcounty.gov">dinah.day@kingcounty.gov</a>
Phone:	Phone:	269-0484

Year	2007-13
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Permit Condition	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Pamela Badger	684-2261	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Laura Belt	296-8485	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Laura Belt	296-8485	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Laura Belt	296-8485	12/31/07	12/11/07
Participate in coordination meetings with Permit staff	Laura Belt	296-8485	10/31/2008	10/23/2008
Participate in coordination meetings with Permit staff	Laura Belt	296-8485	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Terri Barker	296-8475	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Terri Barker	296-8475	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Terri Barker	296-8475	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Dinah Day	296-0484	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Dinah Day	296-0484	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Dinah Day	296-0484	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Dinah Day	296-0484	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Dinah Day	296-0484	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Dinah Day	296-0484	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Dinah Day	296-0484	6/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Participate in quarterly permit lead meetings	Dinah Day	296-0484	9/15/2013	TBD
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# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Solid Waste Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dinah Day  
**Email:** [dinah.day@kingcounty.gov](mailto:dinah.day@kingcounty.gov)  
**Phone:** 269-0484

Permit Cycle 2007-2013

Permit Condition	YES/NO	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	8.b.iii	Y	Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.	Dinah Day	296-8475	8/16/08	8/16/08
Milestones:							
	Y	Identify first responders within SWD	Terri Barker	296-8475	2/15/08	2/15/08	
	Y	Review training records of first responders to ensure all applicable staff were trained to identify, report and terminate	Terri Barker	296-8475	2/15/08	2/15/08	
	Y	Provide training sessions for staff needing the training, initial or follow-up	Terri Barker	296-8475	5/15/10	5/15/10	
	Y	Review records to ensure all applicable staff were trained	Terri Barker	296-8475	2/15/10	2/15/10	
	Y	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	2/15/11	2/15/11	
	Y	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	5/15/11	5/15/11	
	Y	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	6/15/12	6/15/12	
	Y	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/12	9/15/12	
	N	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	6/15/13	TBD	
	N	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/13	TBD	
Permit Condition	YES/NO	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	8.b.iv	Y	Implement training program for field staff who deal with IC/IDDE as part of normal job	Dinah Day	296-8475	2/16/09	2/16/09
Milestones:							

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Y	Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.	Terri Barker	296-8475	2/15/08	2/15/08
Y	Review records to ensure all applicable staff are trained within SWD to ensure all applicable staff were trained to identify, and report IC/IDDE.	Terri Barker	296-8475	2/15/08	2/15/08
Y	Provide training sessions for staff needing the training, initial or follow-up	Terri Barker	296-8475	5/15/10	5/15/10
Y	Review records to ensure all applicable staff were trained	Terri Barker	296-8475	2/15/10	2/15/10
Y	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	2/15/11	2/15/11
Y	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	5/15/11	5/15/11
Y	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	6/15/12	6/15/12
Y	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/12	9/15/12
N	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	6/15/13	TBD
N	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Solid Waste  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Dinah Day  
**Email:** [dinah.day@kingcounty.gov](mailto:dinah.day@kingcounty.gov)  
**Phone:** 269-0484

**Permit Cycle** 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	9.b.iii.1	Y	Permittee shall begin implementing a program to annually inspect all permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee, and implement appropriate maintenance action in accordance with adopted maintenance standards.	Douglas Navetski	296-8311	2/16/09	2/16/09
		<b>Milestones:</b>					
		Y	Conduct annual inspection program for flow control and water quality facilities at KCIA, and perform maintenance as needed in reference to maintenance standards.	Laura Belt	296-7597	2/16/09	2/16/07
		Y	Annually inspect CB's and perform maintenance where needed	Terri Barker	296-8475	11/16/10	2/16/10
		Y	Annually inspect CB's and perform maintenance where needed	Dinah Day	296-0484	11/16/11	2/16/11
		Y	Annually inspect CB's and perform maintenance where needed	Dinah Day	296-0484	11/16/12	11/16/12
N	Annually inspect CB's and perform maintenance where needed	Dinah Day	296-0484	11/16/13	TBD		

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	9.b.iv.1	Y	Permittee shall begin implementing a program to annually inspect catch basins and inlets owned or operated by the Permittee.	Douglas Navetski	296-8311	2/16/09	2/16/09
		<b>Milestones:</b>					
			Conduct ongoing annual catch basin inspection program	Laura Belt	296-8485	2/16/09	2/16/09
			Conduct ongoing annual catch basin inspection program	Terri Barker	296-8475	11/16/10	2/16/10
			Conduct ongoing annual catch basin inspection program	Dinah Day	296-0484	11/16/11	2/16/11
			Conduct ongoing annual catch basin inspection program	Dinah Day	296-0484	11/16/12	11/16/12
	Conduct ongoing annual catch basin inspection program	Dinah Day	296-0484	11/16/13	TBD		

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
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### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

S5C	9.b.v	Y	Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.	Douglas Navetski	68311	2/16/08	2/16/08	
		Done: Yes/No	Milestones:					
		Y	Track and maintain relevant information regarding qualifying projects	Laura Belt	296-8485	12/31/09	12/31/09	
		Y	Annually submit information to permit coordinator at SWS	Terri Barker	296-8475	12/31/09	12/31/09	
		Y	Annually submit information to permit coordinator at SWS	Terri Barker	68354	3/31/10	3/31/10	
		Y	Annually submit information to permit coordinator at SWS	Dinah Day	296-0484	3/31/11	3/31/11	
		Y	Annually submit information to permit coordinator at SWS	Dinah Day	296-0484	12/30/12	12/30/12	
		N	Annually submit information to permit coordinator at SWS	Dinah Day	296-0484	12/30/13	TBD	

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vi	Y	Establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee	Douglas Navetski	68311	2/16/08	2/16/08
		Done: Yes/No	Milestones:				
		Y	Develop practices to implement Stormwater Pollution Prevention Manual	Terri Barker	296-8475	6/17/05	6/17/05
		Y	Review document and implementation feasibility of Simpla	Terri Barker	296-8475	11/1/09	11/1/09

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vi	Y	Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit	Douglas Navetski	68311	8/16/08	8/16/08
		Done: Yes/No	Milestones:				
		Y	Implement SPPM	Terri Barker	296-8475	6/17/05	6/17/05
		Y	Implement SiMPla	Terri Barker	296-8475	11/30/09	11/30/09

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
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## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	9.b.vii	Y	Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.	Douglas Navetski	68311	8/16/08	8/16/08
		Done: Yes/No	Milestones:				
		Y	Begin implementation of SPPM	Terri Barker	296-8475	1/15/95	1/15/95
		Y	Begin implementation of IPM	Terri Barker	296-8475	11/15/99	11/15/99
		Y	Begin implementation of SiMPla	Terri Barker	296-8475	11/30/09	11/30/09

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.viii	Y	Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.	Douglas Navetski	68311	2/16/09	2/16/09
		Done: Yes/No	Milestones:				
		Y	Review training records of all applicable staff	Terri Barker	296-8475	6/1/08	6/1/08
		Y	Provide training sessions for staff needing the training, initial or follow-up	Terri Barker	296-8475	10/10/08	10/10/08
		Y	Review records to ensure all applicable staff were trained	Terri Barker	296-8475	1/15/10	1/15/10
		Y	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	3/15/11	3/15/11
		Y	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/11	9/15/11
		Y	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	6/15/12	6/15/12
		Y	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/12	9/15/12
		N	Review records to ensure all applicable staff were trained	Dinah Day	296-0484	6/15/13	TBD
N	Provide training sessions for staff needing the training, initial or follow-up	Dinah Day	296-0484	9/15/13	TBD		

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.ix	Y	Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.	Douglas Navetski	68311	2/16/09	2/16/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Done: Yes/No	Milestones:				
Y	Determine if Solid Waste Div owns/operates any applicable facilities	Terri Barker	296-8475	6/15/08	6/15/08
Y	Develop SWPPP if determined needed	Terri Barker	296-8475	8/15/08	8/15/08
Y	Implement SWPPP if needed	Terri Barker	296-8475	9/15/08	9/15/08

Work Group Waste Water Treatment Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Betsy Cooper  
 Email: [betsy.cooper@kingcounty.gov](mailto:betsy.cooper@kingcounty.gov)  
 Phone: 263-3728

Permit Condition  
 S5C

S5C.1.iv.

Revisit interagency agreements between co-permittees and implement current agreement	Betsy Cooper	263-3728	12/15/09	TBD
Milestones:				
Complete evaluation of 2008 data and inspection and prepare annual report to SPU	Despina Strong	206-263-3010	1/31/09	2/8/09
Reevaluate the MOA with SPU and begin discussions to revise it	Despina Strong	206-263-3010	3/31/09	TBD
Complete 2009 Inspections as per agreement with SPU	Despina Strong	206-263-3010	12/15/09	12/31/09

Determined that this discussion will be part of a larger discussion with Seattle initiated by Management. No action at this time

completed report on time

See comment above (line 11)  
Completed committed # of inspections

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Waste Water Treatment Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Betsy Cooper  
**Email:** [betsy.cooper@kingcounty.gov](mailto:betsy.cooper@kingcounty.gov)  
**Phone:** 263-3728

<b>Year</b>	2007-13
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<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Map all known MS3 outfalls, receiving waters, Structural BMPs
<b>Milestones:</b>
Submit required mapping info to mapping committee for master County drainage database
Update master County drainage database with new mapping info as available
Participate in technical committee develop list of elements & taxonomy
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Betsy Cooper	263-3728	2/28/09	2/28/09
Betsy Cooper	263-3728	2/28/09	2/28/09
Betsy Cooper	263-3728	12/31/08	12/31/08
Betsy Cooper	263-3728	6/31/10	6/31/10
Betsy Cooper	263-3728	9/31/10	9/31/10
Betsy Cooper	263-3728	12/31/2010	12/31/2010
Betsy Cooper	263-3728	3/31/2011	3/31/2011
Betsy Cooper	263-3728	6/31/11	6/31/11
Betsy Cooper	263-3728	9/31/11	9/31/11
Betsy Cooper	263-3728	4/15/2012	4/15/2012
Betsy Cooper	263-3728	4/15/2013	TBD

<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Initiate program to map connections points with other MS3s
<b>Milestones:</b>
Ensure that drainage system mapping data for WTD facilities are in county drainage mapping database
Ensure that drainage system mapping data for WTD facilities are in county drainage mapping database
Ensure that drainage system mapping data for WTD facilities are in county drainage mapping database
Ensure that drainage system mapping data for KCIA are in county drainage mapping database

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Betsy Cooper	263-3728	2/15/09	2/15/09
Betsy Cooper	263-3728	5/15/10	5/15/10
Betsy Cooper	263-3728	5/15/11	5/15/11
Betsy Cooper	263-3728	11/15/12	11/15/12

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Ensure that drainage system mapping data for KCIA are in county drainage mapping database

Betsy Cooper

263-3728

11/15/13

TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Waste Water Treatment Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Betsy Cooper  
 Email: [betsy.cooper@kingcounty.gov](mailto:betsy.cooper@kingcounty.gov)  
 Phone: 263-3728

Year	2007-13
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Permit Condition	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Betsy Cooper	263-3728	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Betsy Cooper	263-3728	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Betsy Cooper	263-3728	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Betsy Cooper	263-3728	10/31/2008	10/23/2008
Participate in coordination meetings with Permit staff	Betsy Cooper	263-3728	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	6/15/2013	TBD
Participate in quarterly permit lead meetings	Betsy Cooper	263-3728	9/15/2013	TBD

Work Group: Waste Water Treatment Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Betsy Cooper  
 Email: [betsy.cooper@kingcounty.gov](mailto:betsy.cooper@kingcounty.gov)  
 Phone: 263-3728

Permit Condition		Compliance Action	Responsible Party Phone		Target Date	Date Completed
S5C	S5C.5.b.ii	Assure KC WTD facility design and construction specification address permit requirements and are being used in all project development  <b>Milestones:</b>  Complete internal review of revised specs underway;  Determine best ways to implement the use of these specs	Betsy Cooper	263-3728	12/15/09	3/15/09
			John Vaughn and Bruce Kesler	206-684-1671	2/15/09	3/15/09
			John Vaughn and Bruce Kesler	206-684-1671	2/15/09	3/15/09

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Waste Water Treatment Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Betsy Cooper  
**Email:** [betsy.cooper@kingcounty.gov](mailto:betsy.cooper@kingcounty.gov)  
**Phone:** 263-3728

Year 2007-2013

Permit Condition	
S5C	8.b.iii

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.	Betsy Cooper	263-3728	12/31/10	12/31/10
<b>Milestones:</b>				
Identify first responders within WTD	Betsy Cooper	263-3728	2/15/08	2/15/08
Review training records of first responders to ensure all applicable staff were trained to identify, report and terminate	Betsy Cooper	263-3728	NA	NA
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	12/31/10	12/31/10
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	12/13/10	12/31/10
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/11	2/15/11
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/11	5/15/11
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/12	6/15/12
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/12	11/15/12
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/13	TBD
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/13	TBD

Permit Condition	
S5C	8.b.iv

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
Implement training program for field staff who deal with IC/IDDE as part of normal job	Betsy Cooper	263-3728	NA	NA
<b>Milestones:</b>				
Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.	Betsy Cooper	263-3728	2/15/08	2/15/08

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Review records to ensure all applicable staff are trained within Parks to ensure all applicable staff were trained to identify, and report IC/IDDE.	Betsy Cooper	263-3728	NA	NA
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	12/31/10	12/31/10
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	12/31/10	12/31/10
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	12/31/11	12/31/11
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	12/31/11	12/31/11
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/12	6/15/12
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/12	11/15/12
Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/13	TBD
Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Waste Water Division  
 Dept: Natural Resources & Parks  
 Permit Lead: Betsy Cooper  
 Email: [betsy.cooper@kingcounty.gov](mailto:betsy.cooper@kingcounty.gov)  
 Phone: 263-3728

Year: 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C		9.b.v Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.	Douglas Navetski	68311	2/16/08	2/16/08	
		Done: Yes/No	Milestones:				
			Track and maintain relevant information regarding qualifying projects	Betsy Cooper	263-3728	12/31/09	12/31/09
			Annually submit information to permit coordinator at SWS	Betsy Cooper	263-3728	12/31/09	2/1/10
			Annually submit information to permit coordinator at SWS	Betsy Cooper	263-3729	1/15/11	1/15/11
		Annually submit information to permit coordinator at SWS	Betsy Cooper	263-3730	2/15/12	2/15/12	

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C		9.b.vi Establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee	Douglas Navetski	68311	2/16/08	2/16/08	
		Done: Yes/No	Milestones:				
			Develop practices to implement Stormwater Pollution Prevention Manual	Betsy Cooper	263-3728	12/31/09	12/31/09
		Review document and implementation feasibility of Simpla	Betsy Cooper	263-3728	11/1/09	11/1/09	

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C		9.b.vi Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit	Douglas Navetski	68311	8/16/08	8/16/08
		Done: Yes/No	Milestones:			

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Implement SPPM	Betsy Cooper	263-3728	12/31/09	12/31/09
Implement SiMPla	Betsy Cooper	263-3728	12/31/09	21/31/09

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vii		Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.	Douglas Navetski	68311	8/16/08	8/16/08
		Done: Yes/No	Milestones:				
			Begin implementation of SPPM	Betsy Cooper	263-3728	12/31/09	12/31/09
			Begin implementation of IPM	Betsy Cooper	263-3728	11/15/99	11/15/99
	Begin implementation of SiMPla	Betsy Cooper	263-3728	12/31/09	12/31/09		

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.viii		Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.	Douglas Navetski	68311	2/16/09	2/16/09
		Done: Yes/No	Milestones:				
			Review training records of all applicable staff	Betsy Cooper	263-3728	12/31/10	12/31/10
			Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	12/31/10	12/31/10
			Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	12/31/10	12/31/10
			Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	2/15/11	2/15/11
			Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	5/15/11	5/15/11
			Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/12	6/15/12
			Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/12	11/15/12
			Review records to ensure all applicable staff were trained	Betsy Cooper	263-3728	6/15/13	TBD

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Provide training sessions for staff needing the training, initial or follow-up	Betsy Cooper	263-3728	11/15/13	TBD
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Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.xi		Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.	Douglas Navetski	68311	2/16/09	2/16/09
			<b>Milestones:</b>				
			Determine if WTD owns/operates any applicable facilities	Betsy Cooper	263-3728	12/31/09	12/31/09
			Develop SWPPP if determined needed	Betsy Cooper	263-3728	12/31/09	12/31/09
	Implement SWPPP if needed	Betsy Cooper	263-3728	12/31/09	12/31/09		

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Land Use Services Division  
**Dept:** Development & Environmental Services  
**Permit Lead:** Molly Johnson  
**Email:** [molly.johnson@kingcounty.gov](mailto:molly.johnson@kingcounty.gov)  
**Phone:** 206) 296-7178

<b>Year</b>	2007-13
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Permit Condition	Done (Y/N)	Compliance Action
S5C	<b>2.b.i</b>	Map all known MS3 outfalls, receiving waters, Structural BMPs Milestones: Ensure transmittal of corresponding mapping data to KC drainage map data stewards

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Molly Johnson	67178	8/15/08	8/18/08

Permit Condition	Done (Y/N)	Compliance Action
S5C	<b>2.b.i</b>	Initiate program to map connections points with other MS3s Milestones: Ensure transmittal of corresponding mapping data to KC drainage map data stewards Ensure transmittal of corresponding mapping data to KC drainage map data stewards Ensure transmittal of corresponding mapping data to KC drainage map data stewards Ensure transmittal of corresponding mapping data to KC drainage map data stewards Ensure transmittal of corresponding mapping data to KC drainage map data stewards

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Molly Johnson	67178	2/16/09	2/16/09
Molly Johnson	67178	5/15/10	5/15/10
Molly Johnson	67179	5/15/11	5/15/11
Molly Johnson	67180	5/15/12	5/15/12
Molly Johnson	67178	5/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Land Use Services Division  
**Dept:** Development & Environmental Services  
**Permit Lead:** Molly Johnson  
**Email:** [molly.johnson@kingcounty.gov](mailto:molly.johnson@kingcounty.gov)  
**Phone:** 206) 296-7178

<b>Year</b>	2007-13
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<b>Permit Condition</b>	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Steve Townsend	296-6641	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Steve Townsend	296-6641	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Steve Townsend	296-6641	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Steve Townsend	296-6641	12/31/07	10/18/07
Participate in coordination meetings with Permit staff	Steve Townsend	296-6641	10/31/2008	1/20/2008
Participate in coordination meetings with Permit staff	Steve Townsend	296-6641	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Steve Townsend	296-6641	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	12/15/2012	12/15/2012

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Participate in quarterly permit lead meetings	Molly Johnson	296-7178	3/15/2013	3/7/13
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	6/15/2013	TBD
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	9/15/2013	TBD
Participate in quarterly permit lead meetings	Molly Johnson	296-7178	12/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Land Use Services  
 Dept: Development Env Services  
 Permit Lead: Molly Johnson  
 Email: [molly.johnson@kingcounty.gov](mailto:molly.johnson@kingcounty.gov)  
 Phone: 206) 296-7178

Year: 2007 -13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	5.b. i-iv	Permittee shall adopt a local program that meets the requirements in S5.C.5.b.i through iii. Ecology review and approval of the local manual and ordinances is required. Permittees shall provide detailed, written justification of any of the requirements which differ from those contained in Appendix 1 of this permit.	Curt Crawford	296-8329	2/16/2008 - submittal 8-16-08 - implementation	1/15/09
		<b>Milestones:</b>				
		New draft regulations sent to DOE for review	Curt Crawford	296-8329	2/28/08	2/28/08
		DOE comments incorporated, ordinance and public rule adoption completed 2008	Curt Crawford	296-8329	12/31/08	1/15/09
		Participate in Permit Modification with DOE	Curt Crawford	296-8329	6/1/09	6/1/09
		Permit Modification Issued granting equivalency	Curt Crawford	296-8329	7/29/09	7/29/09
S5C	5.b.v	<b>Compliance Action</b>	Curt Crawford	296-8329	8/16/08	8/16/08
		Permittee shall establish legal authority to inspect private stormwater facilities and enforce maintenance standards for all new development and redevelopment approved under the provisions of this section.				
		KCC Title 9 enacted	Curt Crawford	296-8329	1/1/92	1/1/92
		KCC Title 9 updated adopted to meet equivalency requirements	Curt Crawford	296-8329	8/16/08	1/1/09
S5C	5.b.vi	<b>Compliance Action</b>	Steve Foley	296-1973	8/16/08	8/16/08
		The program shall include a process of permits, plan review, inspections, and enforcement capability to meet the following standards for both private and public projects, using qualified personnel:				
		<b>Milestones:</b>				
		Implement permit, plan review, inspections and enforcement program to meet permit requirements	Steve Foley	296-1973	8/16/08	8/16/08
		Meet with DDES to review Permit Modification	Steve Foley	296-1973	10/1/09	11/1/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Permit Condition	
S5C	<b>5.b.vii</b>

Identify any needed development review process changes	Jim Chan/Randy Sandin		11/1/09	11/1/08
Implement any needed changes to development review process	Jim Chan/Randy Sandin		12/31/09	12/31/09
<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
Permittee shall make available the "Notice of Intent for Construction Activity" and/or copies of the "Notice of Intent for Industrial Activity" to representatives of proposed new development and redevelopment. Permittees will continue to enforce local ordinances controlling runoff from sites that are covered by other stormwater permits issued by Ecology.	Steve Foley	296-1973	2/16/07	2/16/07
<b>Milestones:</b>				
Enact NOI Program with DDES	Steve Foley	296-1973	2/16/07	2/16/07
KCC Title 9 enacted	Curt Crawford	296-8329	1/1/92	1/1/92
KCC Title 9 updated adopted to meet equivalency requirements	Curt Crawford	296-8329	8/16/08	1/1/09

Permit Condition	
S5C	<b>5.b.viii</b>

Verify that training is documented	Molly Johnson	296-7178	12/31/09	12/31/09
<b>Milestones:</b>				
Meet with DDES to review training requirements. Minimum Education requirements, CESCL, KCSWDM training.	Steve Foley	296-1973	6/1/09	6/1/09
Review Staff records to verify requirements met. I identify staff needing training to meet requirement.	Steve Foley	296-1973	6/1/09	6/1/09
Set up SWS training tracker	Steve Foley	296-1973	6/1/09	6/1/09
Schedule staff for mandatory training (CESCL & KCSWDM)	Steve Foley	296-1973	10/1/09	10/1/09
Training coordination meeting with SWS and DDES	Steve Foley	296-1973	11/1/09	11/1/09
Training coordination meeting with SWS and DDES	Luanne Coachman	296-8311	11/1/10	11/1/10
Training coordination meeting with SWS and DDES	Molly Johnson	296-7178	11/1/11	11/1/11
Training coordination meeting with SWS and DDES	Molly Johnson	296-7178	11/1/12	11/1/12
Training coordination meeting with SWS and DDES	Molly Johnson	296-7178	11/1/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Land Use Services Division  
**Dept:** Development & Environmental Services  
**Permit Lead:** Molly Johnson  
**Email:** [molly.johnson@kingcounty.gov](mailto:molly.johnson@kingcounty.gov)  
**Phone:** 206) 296-7178

Year	2007-2013
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Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.i	Implement program to prevent, identify and respond to illicit connections and illicit discharges <b>Milestones:</b> Review DDES' IC/IDDE programs and identify gaps in programs and agencies without coverage Address gaps and coverage issues. Develop Central IC/IDDE program to ensure minimum standards met in all custodial agencies. Inspection and review of custodial agencies' IC/IDDE programs Inspection and review of custodial agencies' IC/IDDE programs Inspection and review of custodial agencies' IC/IDDE programs

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/07	2/16/99
Molly Johnson	296-7178	12/31/08	12/31/08
Molly Johnson	296-7178	1/10/10	1/10/10
Molly Johnson	296-7178	11/30/10	11/30/10
Molly Johnson	296-7178	11/30/11	TBD
Molly Johnson	296-7178	11/30/12	TBD

Permit Condition	Compliance Action
S5C	8.b.iii

Compliance Action
Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities. <b>Milestones:</b> Identify first responders within DDES. Review training records of first responders within DDES to ensure all applicable staff were trained to identify, report and terminate Provide training sessions for staff needing the training, initial or follow-up Review records to ensure all applicable staff were trained

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	8/16/08	8/16/08
Molly Johnson	296-7178	2/15/08	2/15/08
Molly Johnson	296-7178	2/15/08	2/15/08
Molly Johnson	296-7178	5/15/10	5/15/10
Molly Johnson	296-7178	2/15/10	2/15/10

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained

Molly Johnson	296-7178	5/15/11	5/15/11
Molly Johnson	296-7178	7/15/11	7/15/11
Molly Johnson	296-7178	5/15/12	TBD
Molly Johnson	296-7178	7/15/12	TBD

Permit Condition	
S5C	8.b.iv

Compliance Action
Implement training program for field staff who deal with IC/IDDE as part of normal job
<b>Milestones:</b>
Identify staff who may encounter IC/IDDE situations (field staff) within DDES.
Review records to ensure all applicable staff are trained within DDES to ensure all applicable staff were trained to identify, and report IC/IDDE.
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Molly Johnson	296-7178	2/15/08	2/15/08
Molly Johnson	296-7178	2/15/08	2/15/08
Molly Johnson	296-7178	5/15/10	5/15/10
Molly Johnson	296-7178	2/15/10	2/15/10
Molly Johnson	296-7178	5/15/11	5/15/11
Molly Johnson	296-7178	7/15/11	7/15/11
Molly Johnson	296-7178	5/15/12	5/15/12
Molly Johnson	296-7178	7/15/12	7/15/12
Molly Johnson	296-7178	5/15/13	TBD
Molly Johnson	296-7178	7/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Transit Division  
**Dept:** Transportation  
**Permit Lead:** Talon Swanson  
**Email:** [talon.swanson@kingcounty.gov](mailto:talon.swanson@kingcounty.gov)  
**Phone:** 684-2261

<b>Year</b>	2007-13
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<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Map all known MS3 outfalls, receiving waters, Structural BMPs
<b>Milestones:</b>
Submit required mapping info to mapping committee for master County drainage database
Update master County drainage database with new mapping info as available
Participate in technical committee develop list of elements & taxonomy
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Talon Swanson	684-2261	8/15/08	8/18/08
Talon Swanson	684-2261	10/31/08	10/30/08
Talon Swanson	684-2261	12/31/08	1/10/09
Talon Swanson	684-2261	6/31/10	6/31/10
Talon Swanson	684-2261	9/31/10	9/31/10
Talon Swanson	684-2261	12/31/2010	12/31/2010
Talon Swanson	684-2261	3/31/2011	3/31/2011
Talon Swanson	684-2261	6/31/11	6/31/11
Talon Swanson	684-2261	9/31/11	9/31/11
Talon Swanson	684-2261	4/15/2012	4/15/2012
Talon Swanson	684-2261	4/15/2013	TBD

<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Initiate program to map connections points with other MS3s
<b>Milestones:</b>
Ensure that drainage system mapping data for park and rides and bases are in county drainage mapping database
Ensure that drainage system mapping data for park and rides and bases are in county drainage mapping database
Ensure that drainage system mapping data for park and rides and bases are in county drainage mapping database

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Talon Swanson	684-2261	2/16/09	2/16/09
Talon Swanson	684-2261	5/15/10	5/15/10
Talon Swanson	684-2261	5/15/11	5/15/11

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Ensure that drainage system mapping data for park and rides and bases are in county drainage mapping database	Talon Swanson	684-2261	5/15/12	5/15/12
Ensure that drainage system mapping data for park and rides and bases are in county drainage mapping database	Talon Swanson	684-2261	5/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group	Transit Division
Dept:	Transportation
Permit Lead:	Talon Swanson
Email:	<a href="mailto:talon.swanson@kingcounty.gov">talon.swanson@kingcounty.gov</a>
Phone:	684-2261

Year	2007-13
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Permit Condition	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Talon Swanson	684-2261	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Talon Swanson	684-2261	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Talon Swanson	684-2261	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Talon Swanson	684-2261	12/31/07	12/11/07
Participate in coordination meetings with Permit staff	Talon Swanson	684-2261	10/31/2008	10/23/2008
Participate in coordination meetings with Permit staff	Talon Swanson	684-2261	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Talon Swanson	684-2261	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Talon Swanson	684-2261	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Talon Swanson	684-2261	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Talon Swanson	684-2261	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Talon Swanson	684-2261	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Talon Swanson	684-2262	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Talon Swanson	684-2263	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Talon Swanson	684-2264	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Talon Swanson	684-2265	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Talon Swanson	684-2264	6/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Participate in quarterly permit lead meetings	Talon Swanson	684-2265	9/15/2013	TBD
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# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Transit Division  
 Dept: Transportation  
 Permit Lead: Talon Swanson  
 Email: [talon.swanson@kingcounty.gov](mailto:talon.swanson@kingcounty.gov)  
 Phone: 684-2261

Year	2007-2013
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Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.i	Implement program to prevent, identify and respond to illicit connections and illicit discharges
		<b>Milestones:</b>
		Review custodial agencies' IC/IDDE programs and identify gaps in programs and agencies without coverage. Address gaps and coverage issues.
		Review Transit IC/IDDE program to ensure minimum standards met.
		Review Transit IC/IDDE program to ensure minimum standards met.
		Review Transit IC/IDDE program to ensure minimum standards met.

Responsible Party	Phone	Target Date	Date Completed
Talon Swanson	684-2261	2/16/07	2/16/99
Doug Navetski	684-2261	12/31/08	12/31/08
Talon Swanson	684-2261	1/10/10	1/10/10
Talon Swanson	684-2261	11/30/10	11/30/10
Talon Swanson	684-2261	11/30/11	4/1/11

Permit Condition	Compliance Action	
S5C	8.b.iii	
		Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.
		<b>Milestones:</b>
		Identify first responders within Transit.
		Review training records of first responders to ensure all applicable staff were trained to identify, report and terminate
		Provide training sessions for staff needing the training, initial or follow-up
		Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up		

Responsible Party	Phone	Target Date	Date Completed
Talon Swanson	684-2261	8/16/08	8/16/08
Talon Swanson	684-2261	2/15/08	2/15/08
Talon Swanson	684-2261	2/15/08	2/15/08
Talon Swanson	684-2261	5/15/10	5/15/10
Talon Swanson	684-2261	7/15/10	7/15/10
Talon Swanson	684-2261	2/15/11	11/10/11

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Permit Condition	
S5C	<b>8.b.iv</b>

Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained

Talon Swanson	684-2261	5/15/11	12/29/11
Talon Swanson	684-2261	12/31/12	12/31/12
Talon Swanson	684-2261	12/31/12	12/31/12
Talon Swanson	684-2261	12/31/13	TBD
Talon Swanson	684-2261	12/31/13	TBD

<b>Compliance Action</b>
Implement training program for field staff who might incidentally deal with IC/IDDE during regular duties
<b>Milestones:</b>
Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.
Review records to ensure all applicable staff are trained within Transit to ensure all applicable staff were trained to identify, and report IC/IDDE.
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up

Responsible Party	Phone	Target Date	Date Completed
Talon Swanson	684-2261	2/16/09	2/16/09
Talon Swanson	684-2261	2/15/08	2/15/08
Talon Swanson	684-2261	2/15/08	2/15/08
Talon Swanson	684-2261	5/15/10	5/15/10
Talon Swanson	684-2261	7/15/10	7/15/10
Talon Swanson	684-2261	2/15/11	12/29/11
Talon Swanson	684-2261	5/15/11	11/17/11
Talon Swanson	684-2261	12/31/12	12/31/12
Talon Swanson	684-2261	12/31/12	12/31/12
Talon Swanson	684-2261	12/31/13	TBD
Talon Swanson	684-2261	12/31/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Transit Division  
**Dept:** Transportation  
**Permit Lead:** Talon Swanson  
**Email:** [talon.swanson@kingcounty.gov](mailto:talon.swanson@kingcounty.gov)  
**Phone:** 684-2261

**Year** 2007-2013

Permit Condition	Done: Yes/No	Compliance Action
S5C		<p><b>9.b.iii.1</b></p> <p>Permittee shall begin implementing a program to annually inspect all permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee, and implement appropriate maintenance action in accordance with adopted maintenance standards.</p> <p><b>Milestones:</b></p> <p>Conduct annual inspection program for flow control and water quality facilities, and perform maintenance as needed in reference to maintenance standards.</p> <p>Annually inspect stormwater facilities and perform maintenance where needed</p> <p>Annually inspect stormwater facilities and perform maintenance where needed</p> <p>Annually inspect stormwater facilities and perform maintenance where needed</p> <p>Annually inspect stormwater facilities and perform maintenance where needed</p>

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Talon Swanson	684-2261	2/16/09	2/16/07
Talon Swanson	684-2261	2/16/10	2/16/10
Talon Swanson	684-2261	2/16/11	11/21/11
Talon Swanson	684-2261	12/31/12	12/31/12
Talon Swanson	684-2261	12/31/13	TBD

Permit Condition	Done: Yes/No	Compliance Action
S5C		<p><b>9.b.iv.1</b></p> <p>Permittee shall begin implementing a program to annually inspect catch basins and inlets owned or operated by the Permittee.</p> <p><b>Milestones:</b></p> <p>Conduct ongoing annual catch basin inspection and maintenance program</p> <p>Conduct ongoing annual catch basin inspection and maintenance program</p> <p>Conduct ongoing annual catch basin inspection and maintenance program</p> <p>Conduct ongoing annual catch basin inspection and maintenance program</p> <p>Conduct ongoing annual catch basin inspection and maintenance program</p>

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Talon Swanson	684-2261	2/16/09	2/16/09
Talon Swanson	684-2261	2/16/10	2/16/10
Talon Swanson	684-2261	2/16/11	11/21/11
Talon Swanson	684-2261	12/31/12	12/31/12
Talon Swanson	684-2261	12/31/13	TBD

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Permit Condition		Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C	9.b.v		Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.	Douglas Navetski	68311	2/16/08	2/16/08	
			Done: Yes/No	Milestones:				
				Track and maintain relevant information regarding qualifying projects	Talon Swanson	684-2261	12/31/09	12/31/09
				Annually submit information to permit coordinator at SWS	Talon Swanson	684-2261	12/31/09	12/31/09
				Annually submit information to permit coordinator at SWS	Talon Swanson	684-2261	12/30/10	12/30/10
				Annually submit information to permit coordinator at SWS	Talon Swanson	684-2261	12/30/11	N/A
				Annually submit information to permit coordinator at SWS	Talon Swanson	684-2261	12/30/12	12/30/12
				Annually submit information to permit coordinator at SWS	Talon Swanson	684-2261	12/30/13	TBD
S5C	9.b.vi		Establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee	Douglas Navetski	68311	2/16/08	2/16/08	
			Done: Yes/No	Milestones:				
				Develop practices to implement Stormwater Pollution Prevention Manual	Talon Swanson	684-2261	6/17/05	6/17/05
				Review document and implementation feasibility of Simpla	Talon Swanson	684-2261	11/1/09	11/1/09
S5C	9.b.vi		Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit	Douglas Navetski	68311	8/16/08	8/16/08	
			Done: Yes/No	Milestones:				
				Implement SPPM	Talon Swanson	684-2261	6/17/05	6/17/05
		Implement SiMPla	Talon Swanson	684-2261	11/30/09	11/30/09		

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Develop Spot Check Implementation Program (SCIP) to determine implementation and effectiveness of SiMPLa	Douglas Navetski	68311	3/7/11	3/7/11
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Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C		Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.	Douglas Navetski	68311	8/16/08	8/16/08	
		Done: Yes/No	Milestones:				
			Begin implementation of SPPM	Talon Swanson	684-2261	1/15/95	1/15/95
			Begin implementation of IPM	Talon Swanson	684-2261	11/15/99	11/15/99
		Begin implementation of SiMPLa	Talon Swanson	684-2261	11/30/09	11/30/09	

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C		Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions that could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.	Douglas Navetski	68311	2/16/09	2/16/09	
		Done: Yes/No	Milestones:				
			Review training records of all applicable staff	Talon Swanson	(206) 684-2261	6/1/08	6/1/08
			Provide training sessions for staff needing the training, initial or follow-up	Talon Swanson	(206) 684-2261	10/10/08	10/10/08
			Review records to ensure all applicable staff were trained	Talon Swanson	(206) 684-2261	3/15/10	3/15/10
			Review records to ensure all applicable staff were trained	Talon Swanson	(206) 684-2261	3/15/11	12/29/11
			Provide training sessions for staff needing the training, initial or follow-up	Talon Swanson	(206) 684-2261	9/15/11	N/A
			Review records to ensure all applicable staff were trained	Talon Swanson	(206) 684-2261	12/31/12	12/31/12
			Provide training sessions for staff needing the training, initial or follow-up	Talon Swanson	(206) 684-2261	12/31/12	12/31/12
			Review records to ensure all applicable staff were trained	Talon Swanson	(206) 684-2261	12/31/13	TBD

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Provide training sessions for staff needing the training, initial or follow-up
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Talon Swanson
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(206) 684-2261
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12/31/13
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TBD
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Permit Condition		Done: Yes/No	Compliance Action
S5C	<b>9.b.ix</b>		Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.
		Done: Yes/No	Milestones:
			Determine if Transit owns/operates any applicable facilities
			Develop SWPPP if determined needed
			Implement SWPPP if needed

Responsible Party
Douglas Navetski

Phone
68311

Target Date
2/16/09

Date Completed
2/16/09

Talon Swanson
Talon Swanson
Talon Swanson

684-2261
684-2261
684-2261

6/15/08
8/15/08
9/15/08

6/15/08
8/15/08
9/15/08

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Airport Division  
**Dept:** Transportation  
**Permit Lead:** Peter Dumaliang  
**Email:** [Peter.Dumaliang@kingcounty.gov](mailto:Peter.Dumaliang@kingcounty.gov)  
**Phone:** 206-296-7597

Year	2007-13
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Permit Condition	Done: Yes/No	Compliance Action
S5C	2.b.i	Map all known MS3 outfalls, receiving waters, Structural BMPs <b>Milestones:</b> Submit required mapping info to mapping committee for master County drainage database Update master County drainage database with new mapping info as available Participate in technical committee develop list of elements & taxonomy Participate in Mapping Oversight Committee & submit new data Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Peter Dumaliang	296-7597	8/15/08	8/18/08
Peter Dumaliang	296-7597	10/31/08	10/31/08
Peter Dumaliang	296-7597	12/31/08	12/31/08
Peter Dumaliang	296-7597	6/31/10	6/31/10
Peter Dumaliang	296-7597	9/31/10	9/31/10
Peter Dumaliang	296-7597	12/31/2010	12/31/2010
Peter Dumaliang	296-7597	3/31/2011	3/31/2011
Peter Dumaliang	296-7597	9/31/11	9/31/11
Peter Dumaliang	296-7597	4/15/2012	4/15/2012
Peter Dumaliang	296-7597	4/15/2013	TBD

Permit Condition	Compliance Action
S5C	2.b.i Initiate program to map connections points with other MS3s <b>Milestones:</b> Ensure that drainage system mapping data for KCIA are in county drainage mapping database Ensure that drainage system mapping data for KCIA are in county drainage mapping database Ensure that drainage system mapping data for KCIA are in county drainage mapping database Ensure that drainage system mapping data for KCIA are in county drainage mapping database Ensure that drainage system mapping data for KCIA are in county drainage mapping database

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Peter Dumaliang	296-7597	2/16/09	2/16/09
Peter Dumaliang	296-7597	5/15/10	5/15/10
Peter Dumaliang	296-7597	5/15/11	5/15/10
Peter Dumaliang	296-7597	5/15/12	5/15/12
Peter Dumaliang	296-7597	5/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group	Work Group	Airport Division
Dept:	Dept:	Transportation
Permit Lead:	Permit Lead:	Peter Dumaliang
Email:	Email:	<a href="mailto:Peter.Dumaliang@kingcounty.gov">Peter.Dumaliang@kingcounty.gov</a>
Phone:	Phone:	206-296-7597

Year	2007-13
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Permit Condition	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Peter Dumaliang	296-7597	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Peter Dumaliang	296-7597	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Peter Dumaliang	296-7597	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Peter Dumaliang	296-7597	10/31/2008	6/14/2008
Participate in coordination meetings with Permit staff	Peter Dumaliang	296-7597	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	6/15/2013	TBD
Participate in quarterly permit lead meetings	Peter Dumaliang	296-7597	9/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Airport Division  
**Dept:** Transportation  
**Permit Lead:** Peter Dumaliang  
**Email:** [Peter.Dumaliang@kingcounty.gov](mailto:Peter.Dumaliang@kingcounty.gov)  
**Phone:** 206-296-7597

Year	2007-2013
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Permit Condition	Done: Yes/No	Compliance Action
S5C	8.b.i	Implement program to prevent, identify and respond to illicit connections and illicit discharges <b>Milestones:</b> Review custodial agencies' IC/IDDE programs and identify gaps in programs and agencies without coverage. Address gaps and coverage issues. Review KCIA IC/IDDE program to ensure minimum standards met. Review KCIA IC/IDDE program to ensure minimum standards met. Review KCIA IC/IDDE program to ensure minimum standards met.

Responsible Party	Phone	Target Date	Date Completed
Talon Swanson	684-2261	2/16/07	2/16/99
Doug Navetski	684-2261	12/31/08	12/31/08
Peter Dumaliang	296-7597	1/10/10	1/10/10
Peter Dumaliang	296-7597	11/30/10	11/30/10
Peter Dumaliang	296-7597	11/30/11	11/30/11

Permit Condition	Compliance Action
S5C	8.b.iii

Compliance Action
Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.
<b>Milestones:</b>
Identify first responders within KCIA
Review training records of first responders within KCIA to ensure all applicable staff were trained to identify, report and terminate
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	8/16/08	8/16/08
Peter Dumaliang	296-7597	2/15/08	2/15/08
Peter Dumaliang	296-7597	2/15/08	2/15/08
Peter Dumaliang	296-7597	5/15/10	5/15/10
Peter Dumaliang	296-7597	2/15/10	2/15/10
Peter Dumaliang	296-7597	2/15/11	2/15/11
Peter Dumaliang	296-7597	5/15/11	5/15/11

### King County NPDES Muni Stormwater Permit

#### Permit Compliance Tracking Form

Permit Condition	
S5C	<b>8.b.iv</b>

Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up

Peter Dumaliang	296-7597	6/15/12	6/15/12
Peter Dumaliang	296-7597	11/15/12	11/15/12
Peter Dumaliang	296-7597	6/15/13	TBD
Peter Dumaliang	296-7597	11/15/13	TBD

Compliance Action
Implement training program for field staff who deal with IC/IDDE as part of normal job
<b>Milestones:</b>
Identify staff who may encounter IC/IDDE situations (field staff) within KCIA
Review records to ensure all applicable staff are trained within KCIA to ensure all applicable staff were trained to identify, and report IC/IDDE.
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Peter Dumaliang	296-7597	2/15/08	2/15/08
Peter Dumaliang	296-7597	2/15/08	2/15/08
Peter Dumaliang	296-7597	5/15/10	5/15/10
Peter Dumaliang	296-7597	2/15/10	2/15/10
Peter Dumaliang	296-7597	2/15/11	2/15/11
Peter Dumaliang	296-7597	5/15/11	5/15/11
Peter Dumaliang	296-7597	6/15/12	6/15/12
Peter Dumaliang	296-7597	11/15/12	11/15/12
Peter Dumaliang	296-7597	6/15/13	TBD
Peter Dumaliang	296-7597	11/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group:** Airport Division  
**Dept:** Natural Resources & Parks  
**Permit Lead:** Peter Dumaliang  
**Email:** [Peter.Dumaliang@kingcounty.gov](mailto:Peter.Dumaliang@kingcounty.gov)  
**Phone:** 206-296-7597

**Year:** 2007-2013

Permit Condition	Done: Yes	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.iii.1	Permittee shall begin implementing a program to annually inspect all permanent stormwater treatment and flow control facilities (other than catch basins) owned or operated by the Permittee, and implement appropriate maintenance action in accordance with adopted maintenance standards.	Douglas Navetski	296-8311	2/16/09	2/16/09
		<b>Milestones:</b>				
		Conduct annual inspection program for flow control and water quality facilities at KCIA, and perform maintenance as needed in reference to maintenance standards.	Peter Dumaliang	296-7597	2/16/09	2/16/07
		Annually inspect CB's and perform maintenance where needed	Peter Dumaliang	296-7597	11/16/10	2/16/10
		Annually inspect CB's and perform maintenance where needed	Peter Dumaliang	296-7597	11/16/11	2/16/11
		Annually inspect CB's and perform maintenance where needed	Peter Dumaliang	296-7597	11/16/12	11/16/12
		Annually inspect CB's and perform maintenance where needed	Peter Dumaliang	296-7597	11/16/13	TBD

Permit Condition	Done: Yes	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.iv.1	Permittee shall begin implementing a program to annually inspect catch basins and inlets owned or operated by the Permittee.	Douglas Navetski	296-8311	2/16/09	2/16/09
		<b>Milestones:</b>				
		Conduct ongoing annual catch basin inspection program	Peter Dumaliang	296-7597	2/16/09	2/16/09
		Conduct ongoing annual catch basin inspection program	Peter Dumaliang	296-7597	11/16/10	2/16/10
		Conduct ongoing annual catch basin inspection program	Peter Dumaliang	296-7597	11/16/11	2/16/11
		Conduct ongoing annual catch basin inspection program	Peter Dumaliang	296-7597	11/16/12	11/16/12
Conduct ongoing annual catch basin inspection program	Peter Dumaliang	296-7597	11/16/13	TBD		

Permit Condition	Done: Yes	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
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## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	9.b.v	Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.	Douglas Navetski	68311	2/16/08	2/16/08
		<b>Milestones:</b>				
		Track and maintain relevant information regarding qualifying projects	Peter Dumaliang	296-7597	12/30/09	12/30/09
		Annually submit information to permit coordinator at SWS	Peter Dumaliang	296-7597	12/30/09	12/30/09
		Annually submit information to permit coordinator at SWS	Peter Dumaliang	296-7597	12/30/10	12/30/10
		Annually submit information to permit coordinator at SWS	Peter Dumaliang	296-7597	12/30/11	12/30/11
		Annually submit information to permit coordinator at SWS	Peter Dumaliang	296-7597	12/30/12	12/30/12
		Annually submit information to permit coordinator at SWS	Peter Dumaliang	296-7597	12/30/13	TBD

Permit Condition		Done: Yes	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vi		Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit	Douglas Navetski	68311	2/16/08 - Establish 8/16/2008 - Implement	8/16/08
			<b>Milestones:</b>				
			Implement SPPM	Peter Dumaliang	296-7597	6/17/05	6/15/05
			Implement SiMPiA	Peter Dumaliang	296-7597	11/30/09	11/30/09

Permit Condition		Done: Yes	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vii		Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.	Douglas Navetski	68311	8/16/08	8/16/08
			<b>Milestones:</b>				
			Implement SPPM	Peter Dumaliang	296-7597	1/15/95	1/15/95
			Implement IPM	Peter Dumaliang	296-7597	11/15/09	11/15/09
	Implement SiMPiA	Peter Dumaliang	296-7597	11/30/09	11/30/09		

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

<b>S5C</b>	<b>9.b.viii</b>	<p>Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.</p> <p><b>Milestones:</b></p> <p>Review training records of all applicable staff</p> <p>Provide training sessions for staff needing the training, initial or follow-up</p> <p>Review records to ensure all applicable staff were trained</p> <p>Review records to ensure all applicable staff were trained</p> <p>Provide training sessions for staff needing the training, initial or follow-up</p> <p>Review records to ensure all applicable staff were trained</p> <p>Provide training sessions for staff needing the training, initial or follow-up</p> <p>Review records to ensure all applicable staff were trained</p> <p>Provide training sessions for staff needing the training, initial or follow-up</p>	Douglas Navetski	68311	2/16/09	2/16/09	
			Peter Dumaliang	296-7597	6/21/95	6/21/95	
			Peter Dumaliang	296-7597	10/10/08	10/10/08	
			Peter Dumaliang	296-7597	3/15/10	3/15/10	
			Peter Dumaliang	296-7597	3/15/11	3/15/11	
			Peter Dumaliang	296-7597	9/15/11	9/15/11	
			Peter Dumaliang	296-7597	3/15/12	3/15/12	
			Peter Dumaliang	296-7597	9/15/12	9/15/12	
			Peter Dumaliang	296-7597	3/15/13	TBD	
			Peter Dumaliang	296-7597	9/15/13	TBD	
<b>Permit Condition</b>		<b>Done: Yes</b>	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
S5C	9.b.ix		<p>Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.</p> <p><b>Milestones:</b></p> <p>Identify applicable facilities owned/operated by custodial agencies</p> <p>Assign SWPPP Development to appropriate Custodial Agencies</p> <p>Confirm completion and Implementation of SWPPPs</p>	Douglas Navetski	68311	2/16/09	2/16/09
				Peter Dumaliang	296-7597	6/15/08	6/15/08
				Peter Dumaliang	296-7597	8/15/08	8/15/08
				Peter Dumaliang	296-7597	9/15/08	9/15/08

King County NPDES Muni Stormwater Permit

Permit Compliance Tracking Form

Work Group: Road Services Division  
 Dept: Transportation  
 Permit Lead: Jennifer Keune  
 Email: [jennifer.keune@kingcounty.gov](mailto:jennifer.keune@kingcounty.gov)  
 Phone: (206) 205-3703

Year: 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C .2.b.i	<input checked="" type="radio"/> Yes <input type="radio"/> No	Map all known outfalls & treatment/flow control structures owned or operated by KC Roads; map connection pts btwn adjacent permittees; implement program to map new structures	Michael Kulish	6-8222	2/16/09	2/16/09
	<b>Milestones:</b>					
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Map outfalls & receiving water bodies w/in KC Road ROW	Michael Kulish		2/16/09	10/31/08
	<input type="radio"/> Yes <input checked="" type="radio"/> No	Map treatment/flow control structures w/in KC Road ROW	Michael Kulish		2/16/09	2/16/09
	<input type="radio"/> Yes <input checked="" type="radio"/> No	Map interties w/in KC Road ROW	Michael Kulish		2/16/09	2/16/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Begin mapping new structures & outfalls as they are constructed w/in KC Road ROW	Michael Kulish		2/16/09	2004
S5C .2.b.ii	<input checked="" type="radio"/> Yes <input type="radio"/> No	Map outfall attributes in urban/higher density rural sub-basins	Michael Kulish		2/16/11	2/16/11
	<b>Milestones:</b>					
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Identify qualifying outfalls	Michael Kulish		2/16/10	2/16/10
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Map attributes including land use, type/material/size of tributary conveyances, associated drainage areas	Michael Kulish		2/16/11	2/16/11

King County NPDES Muni Stormwater Permit

Permit Compliance Tracking Form

Work Group: Road Services Division  
 Dept: Transportation  
 Permit Lead: Jennifer Keune  
 Email: [jennifer.keune@kingcounty.gov](mailto:jennifer.keune@kingcounty.gov)  
 Phone: (206) 205-3703

Year: 2007-2013

Permit Condition	Done: Yes/ Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C .2.b.iv	<input checked="" type="radio"/> Yes <input type="radio"/> No Map existing, known connections over 8" to MS3 w/in KC Road ROW tributary to outfalls 24" or larger --> map 1/2 area of the county w/in urban/higher density rural subbasins (catchments)	Michael Kulish		2/16/11	2/16/11
	Milestones:	Michael Kulish		2/16/09	2/16/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No Identify qualifying catchments	Text Here	Text Here	Date	Date
	<input checked="" type="radio"/> Yes <input type="radio"/> No Map connections				
S5C .7.b.v	<input checked="" type="radio"/> Yes <input type="radio"/> No Provide training on source control BMPs and their proper application	Jennifer Rilling		2/16/09	on-going
	Milestones:	Janine Johanson	5-7101	2/16/09	2002
	<input type="radio"/> Yes <input checked="" type="radio"/> No Send crews to UW Track training	Janine Johanson		spring 2009	
	<input type="radio"/> Yes <input checked="" type="radio"/> No Develop/implement in-house BMP refresher course	Jennifer Rilling		2/16/09	2/16/09
<input type="radio"/> Yes <input checked="" type="radio"/> No Send crews to pollution prevention training					
S5C .3.D.II & .8.b.i	<input checked="" type="radio"/> Yes <input type="radio"/> No Develop procedures for addressing pollutants from adjacent permittees' MS4s	Jennifer Rilling		2/16/09	2/16/09
	Milestones:	Richard Sawyer	6-8073	2/16/09	2/16/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No Have discussions w/ adjacent municipalities about preferred approach	Richard Sawyer?		2/16/09	2/16/09
	<input type="radio"/> Yes <input checked="" type="radio"/> No Develop agreement btwn permittees				

King County NPDES Muni Stormwater Permit

Permit Compliance Tracking Form

Work Group: Road Services Division  
 Dept: Transportation  
 Permit Lead: Jennifer Keune  
 Email: [jennifer.keune@kingcounty.gov](mailto:jennifer.keune@kingcounty.gov)  
 Phone: (206) 205-3703

Year: 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C .8.b.i	<input checked="" type="radio"/> Yes	Continue implementing IDDE program	Jennifer Rilling		2/16/07	2/16/07
	Milestones:					
	<input checked="" type="radio"/> Yes	On-going training on spill response & IDDE	Jennifer Rilling		2/16/07	2/16/07
	<input checked="" type="radio"/> Yes	24-hr hotline	Elvie Iwatani	6-8143	2/16/07	2/16/07
	<input checked="" type="radio"/> Yes	Spill/orphan waste response	Jennifer Rilling		2/16/07	2/16/07
S5C .8.b.iii	<input checked="" type="radio"/> Yes	Provide IDDE training to "responsible" staff	Jennifer Rilling		8/16/08	8/16/08
	Milestones:					
	<input checked="" type="radio"/> Yes	Train new hires	Jennifer Rilling		8/16/08	8/16/08
	<input checked="" type="radio"/> Yes	Provide refresher training	Jennifer Rilling		8/16/08	8/16/08
	<input checked="" type="radio"/> Yes	Maintain records (sign-in sheets)	Jennifer Rilling		8/16/08	8/16/08
S5C .8.b.iv	<input checked="" type="radio"/> Yes	Provide training to staff who "might come into contact with" IC/IDDE	Jennifer Rilling		2/16/09	years ago
	Milestones:					
	<input checked="" type="radio"/> Yes	Train new hires & provide refresher training on IDDE, maintain records	Jennifer Rilling		2/16/09	years ago
	<input checked="" type="radio"/> Yes	Get training module for illicit connection identification, notification	Doug Navetski	6-8311	2/16/09	mid-2010
	<input checked="" type="radio"/> Yes	Add IC module to existing training	Jennifer Rilling		2/16/09	mid-2011

King County NPDES Muni Stormwater Permit

Permit Compliance Tracking Form

Work Group: Road Services Division  
 Dept: Transportation  
 Permit Lead: Jennifer Keune  
 Email: [jennifer.keune@kingcounty.gov](mailto:jennifer.keune@kingcounty.gov)  
 Phone: (206) 205-3703

Year: 2007-2013

Permit Condition	Done: Yes/ Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C .8.b.vi.2	<input type="radio"/> Yes <input checked="" type="radio"/> No Screen outfalls & conveyances in 1/2 of urban/higher density rural subbasins for illicit connections; screen outfalls in 1 rural subbain	Doug Navetski		2/16/12	Date
	<b>Milestones:</b>	Michael Kulish		8/16/09	Date
	<input checked="" type="radio"/> Yes <input type="radio"/> No Identify & prioritize qualifying outfalls & conveyances	Text Here	Text Here	12/31/09	Date
	<input checked="" type="radio"/> Yes <input type="radio"/> No Develop screening & source tracing program, including training, tracking, and field component	Text Here	Text Here	2/16/10	mid-2010
	<input checked="" type="radio"/> Yes <input type="radio"/> No Implement program	Text Here	Text Here	mid-2011	mid-2010
	<input type="radio"/> Yes <input checked="" type="radio"/> No Completed screening	Text Here	Text Here	Date	Date
S5C .9.a.ii	<input checked="" type="radio"/> Yes <input type="radio"/> No Establish practices to reduce stormwater impacts from parking lots, roads, & road maintenance activities	Jennifer Rilling		2/16/08	2/16/08
	<b>Milestones:</b>	Jennifer Rilling		2/16/08	2/16/08
	<input checked="" type="radio"/> Yes <input type="radio"/> No Continue implementation of ESA Guidelines for RMS operations				

King County NPDES Muni Stormwater Permit

Permit Compliance Tracking Form

Work Group: Road Services Division  
 Dept: Transportation  
 Permit Lead: Jennifer Keune  
 Email: [jennifer.keune@kingcounty.gov](mailto:jennifer.keune@kingcounty.gov)  
 Phone: (206) 205-3703

Year: 2007-2013

Permit Condition	Done: Yes/	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C .9.b.iv	<input checked="" type="radio"/> Yes <input type="radio"/> No	Inspect & maintain catch basins & inlets	Jennifer Rilling		2/16/09	2/16/09
	Milestones:					
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Develop vector program; get mgmt approval	Richard Sawyer		12/31/08	12/31/08
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Develop inspection program; get mgmt approval	Richard Sawyer		1/15/09	1/15/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Develop tracking program; get mgmt approval	Richard Sawyer		1/31/09	1/31/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Develop training program; begin training crews	Richard Sawyer		2/16/09	2/16/09
S5C .9.b.vii	<input checked="" type="radio"/> Yes <input type="radio"/> No	Establish policies to reduce pollutant loads in discharges from County-owned/operated properties (P&Rs, ROW, marks, maint yards, SW facilities)	Jennifer Rilling		8/16/08	8/16/08
	Milestones:					
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Continue implementation of ESA Guidelines, Integrated Roadside Veg Mgmt, S&G SWPPPs for RMS operations	Jennifer Rilling		8/16/08	8/16/08
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Identify Roads'-owned properties not addressed through programs above	Jennifer Rilling		6/13/08	6/13/08
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Develop/implement parcel inspection program for Roads'-owned properties not already inspected	Jennifer Rilling		8/13/08	mid-2008

King County NPDES Muni Stormwater Permit

Permit Compliance Tracking Form

Work Group: Road Services Division  
 Dept: Transportation  
 Permit Lead: Jennifer Keune  
 Email: [jennifer.keune@kingcounty.gov](mailto:jennifer.keune@kingcounty.gov)  
 Phone: (206) 205-3703

Year: 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C .9.b.viii	<input checked="" type="radio"/> Yes <input type="radio"/> No	Training employees who have primary construction or O&M job functions	Jennifer Rilling		2/16/09	2/16/09
		<b>Milestones:</b>				
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Provide initial training to RMS new hires	Jennifer Rilling		2/16/09	2/16/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No	CESCL/HAZWOPER training program for Eng. Svcs. EU	Ronda Strauch		2/16/09	12/31/08
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Provide refresher training for existing staff	Jennifer Rilling		2/16/09	2/16/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Training admin: develop/revamp training annually; schedules classes, track participants, etc	Jennifer Keune		2/16/09	2/16/09
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Provide training sessions for staff needing the training, initial or follow-up	Jennifer Keune		5/15/2010	
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Review records to ensure all applicable staff were trained	Jennifer Keune		7/15/2010	5/15/2010
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Provide training sessions for staff needing the training, initial or follow-up	Jennifer Keune		5/15/2011	7/15/2010
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Review records to ensure all applicable staff were trained	Jennifer Keune		7/15/2011	5/15/2011
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Provide training sessions for staff needing the training, initial or follow-up	Jennifer Keune		5/15/2012	7/15/2011
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Review records to ensure all applicable staff were trained	Jennifer Keune		7/15/2012	5/15/2012
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Provide training sessions for staff needing the training, initial or follow-up	Jennifer Keune		5/15/2013	TBD
	<input checked="" type="radio"/> Yes <input type="radio"/> No	Review records to ensure all applicable staff were trained	Jennifer Keune		7/15/2013	TBD

Yes  No

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Facilities Management Division  
**Dept:** Executive Services  
**Permit Lead:** Dave Preugschat  
**Email:** [dave.preugschat@kingcounty.gov](mailto:dave.preugschat@kingcounty.gov)  
**Phone:** 296-1873

<b>Permit Cycle</b>	2007-13
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<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Map all known MS3 outfalls, receiving waters, Structural BMPs
<b>Milestones:</b>
Submit required mapping info to mapping committee for master County drainage database
Update master County drainage database with new mapping info as available
Participate in technical committee develop list of elements & taxonomy
Participate in Mapping Oversight Committee & submit new data
Complete review of DES property database for properties that have a probability of SW facilities
Map investment properties
Complete 50% of field confirmation work for presence/absence of SW facilities
Complete remaining 50% of field confirmation work for presence/absence of SW facilities
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Dave Preugschat	296-1873	8/15/08	8/18/08
Dave Preugschat	296-1873	10/31/08	10/30/08
Dave Preugschat	296-1873	12/31/08	1/10/09
Dave Preugschat	296-1873	3/31/2010	3/31/2010
Dave Preugschat	296-1873	4/30/2010 revised to 8/15/10	8/15/10
Dave Preugschat	296-1873	6/1/2010	6/1/2010
Dave Preugschat	296-1873	8/30/2011	8/30/2011
Dave Preugschat	296-1873	12/31/2011	12/31/2011
Dave Preugschat	296-1873	6/31/10	6/31/10
Dave Preugschat	296-1873	9/31/10	9/31/10
Dave Preugschat	296-1873	12/31/2010	12/31/2010
Dave Preugschat	296-1873	3/31/2011	3/31/2011
Dave Preugschat	296-1873	6/31/11	6/31/11
Dave Preugschat	296-1873	9/31/11	9/31/11
Bill Eckel	296-1860	4/15/2012	4/15/2012
Bill Eckel	296-1860	4/15/2013	TBD

<b>Permit Condition</b>	
S5C	<b>2.b.i</b>

Compliance Action
Initiate program to map connections points with other MS3s

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Milestones:
Ensure that drainage system mapping data for DES properties are in county drainage mapping database
Ensure that drainage system mapping data for DES properties are in county drainage mapping database
Ensure that drainage system mapping data for DES properties are in county drainage mapping database
Ensure that drainage system mapping data for KCIA are in county drainage mapping database
Ensure that drainage system mapping data for KCIA are in county drainage mapping database

Dave Preugschat	296-1873	2/16/09	2/16/09
Dave Preugschat	296-1873	5/15/10	5/15/10
Dave Preugschat	296-1873	5/15/11	5/15/11
Bill Eckel	296-1860	5/15/12	5/15/12
Bill Eckel	296-1860	5/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group	Work Group	Facilities Management Division
Dept:	Dept:	Executive Services
Permit Lead:	Permit Lead:	Dave Preugschat
Email:	Email:	<a href="mailto:dave.preugschat@kingcounty.gov">dave.preugschat@kingcounty.gov</a>
Phone:	Phone:	296-1873

Year	2007-13
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Permit Condition	
S5C	<b>3.b.i</b>

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Joe Hicker	296-0977	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Joe Hicker	296-0977	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Joe Hicker	296-0977	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Joe Hicker	296-0977	12/31/07	12/11/07
Participate in coordination meetings with Permit staff	Joe Hicker	296-0977	10/31/2008	10/23/2008
Participate in coordination meetings with Permit staff	Joe Hicker	296-0977	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Mike Lozano	296-4240	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Mike Lozano	296-4240	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Kathi Murata/Dave Preugschat	296-4240	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Bill Eckel	296-1860	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Bill Eckel	296-1860	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Bill Eckel	296-1860	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Bill Eckel	296-1860	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Leo Griffin	296-1815	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Leo Griffin	296-1815	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Leo Griffin	296-1815	6/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Participate in quarterly permit lead meetings	Leo Griffin	296-1815	9/15/2013	TBD
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# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: DES Division  
 Dept: Executive Services  
 Permit Lead: Dave Preugschat  
 Email: [dave.preugschat@kingcounty.gov](mailto:dave.preugschat@kingcounty.gov)  
 Phone: 296-1873

Year: 2007-2013

Permit Condition		Done: Yes/No	Compliance Action
S5C	8.b.i		Implement program to prevent, identify and respond to illicit connections and illicit discharges
			<b>Milestones:</b>
			Review custodial agencies' IC/IDDE programs and identify gaps in programs and agencies without coverage. Address gaps and coverage issues.
			Review DES IC/IDDE program to ensure minimum standards met.
			Review DES IC/IDDE program to ensure minimum standards met.
			Review DES IC/IDDE program to ensure minimum standards met.
			Review DES IC/IDDE program to ensure minimum standards met.
			Review DES IC/IDDE program to ensure minimum standards met.

Responsible Party	Phone	Target Date	Date Completed
Dave Preugschat	296-1873	2/16/07	2/16/99
Doug Navetski	296-1873	12/31/08	12/31/08
Dave Preugschat	296-1873	1/10/10	1/10/10
Dave Preugschat	296-1873	11/30/10	11/30/10
Dave Preugschat	296-1873	11/30/11	11/30/11
Bill Eckel	296-1860	11/30/12	11/30/12
Bill Eckel	296-1860	11/30/13	TBD

Permit Condition		Compliance Action
S5C	8.b.iii	Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.
		<b>Milestones:</b>
		Identify first responders within DES.
		Review training records of first responders to ensure all applicable staff were trained to identify, report and terminate
		Provide training sessions for staff needing the training, initial or follow-up

Responsible Party	Phone	Target Date	Date Completed
Dave Preugschat	296-1873	8/16/08	8/16/08
Dave Preugschat	296-1873	2/15/08	2/15/08
Dave Preugschat	296-1873	2/15/08	2/15/08
Dave Preugschat	296-1873	5/15/10	5/15/10
Dave Preugschat	296-1873	7/15/10	7/15/10

**King County NPDES Muni Stormwater Permit**

**Permit Compliance Tracking Form**

Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained

Dave Preugschat	296-1873	5/15/11	5/15/11
Dave Preugschat	296-1873	7/15/11	7/15/11
Bill Eckel	296-1860	6/15/12	6/15/12
Bill Eckel	296-1860	9/15/12	9/15/12
Bill Eckel	296-1860	6/15/13	TBD
Bill Eckel	296-1860	9/15/13	TBD

Permit Condition	
S5C	8.b.iv

Compliance Action
Implement training program for field staff who deal with IC/IDDE as part of normal job
<b>Milestones:</b>
Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.
Review records to ensure all applicable staff are trained within DES to ensure all applicable staff were trained to identify, and report IC/IDDE.
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up

Responsible Party	Phone	Target Date	Date Completed
Dave Preugschat	296-1873	2/16/09	2/16/09
Dave Preugschat	296-1873	2/15/08	2/15/08
Dave Preugschat	296-1873	2/15/08	2/15/08
Dave Preugschat	296-1873	5/15/10	5/15/10
Dave Preugschat	296-1873	7/15/10	7/15/10
Dave Preugschat	296-1873	2/15/11	2/15/11
Dave Preugschat	296-1873	5/15/11	5/15/11
Bill Eckel	296-1860	6/15/12	6/15/12
Bill Eckel	296-1860	9/15/12	9/15/12
Bill Eckel	296-1860	6/15/13	TBD
Bill Eckel	296-1860	9/15/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

**Work Group** Facilities Management  
**Dept:** Executive Services  
**Permit Lead:** Dave Preugschat  
**Email:** [dave.preugschat@kingcounty.gov](mailto:dave.preugschat@kingcounty.gov)  
**Phone:** 296-1873

**Permit Cycle**  
 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.v	Records of maintenance or repair requiring capital construction of \$25,000 or more shall be maintained and provided in the annual report.	Douglas Navetski	68311	2/16/08	2/16/08
		<b>Done: Yes/No</b> Milestones:				
		Track and maintain relevant information regarding qualifying projects	Dave Preugschat	296-1873	12/31/09	12/31/09
		Annually submit information to permit coordinator at SWS	Dave Preugschat	296-1873	12/31/09	12/31/09
		Report qualifying construction project list in annual report	Giles Pettifor	68354	3/31/10	3/31/10
		Report qualifying construction project list in annual report	Giles Pettifor	68354	3/31/11	3/31/11
		Report qualifying construction project list in annual report	Giles Pettifor	68354	3/31/12	3/31/12
		Report qualifying construction project list in annual report	Giles Pettifor	68354	3/31/13	3/31/13

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	9.b.vi	Establish practices to reduce stormwater impacts associated with runoff from parking lots, streets, roads, and highways owned or operated by the Permittee; and road maintenance activities conducted by the Permittee	Douglas Navetski	68311	2/16/08	2/16/08
		<b>Done: Yes/No</b> Milestones:				
		Develop practices to implement Stormwater Pollution Prevention Manual	Dave Preugschat	296-1873	6/17/05	6/17/05
		Review document and implementation feasibility of SiMPLa Develop tiered analysis protocols to rank properties in determination of risk for pollutant loading to MS4	Dave Preugschat	296-1873	11/1/09	11/1/09
			Dave Preugschat	296-1873	4/5/11	4/5/11

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
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## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	9.b.vi	Implementation of practices described in S5.C9.b.vi shall begin and continue on an ongoing basis throughout the term of the permit	Done: Yes/No	Milestones:	Responsible Party	Phone	Target Date	Date Completed
		Implement SPPM			Douglas Navetski	68311	8/16/08	8/16/08
		Implement SiMPLa (SCIP) to determine implementation and effectiveness of SiMPLa			Dave Preugschat	296-1873	6/17/05	6/17/05
		Conduct tiered analysis			Dave Preugschat	296-1873	11/30/09	11/30/09
		Conducted field confirmation of Tier I properties			Douglas Navetski	68311	6/15/11	6/15/11
		Conduct field confirmation of 50% of Tier II properties to determine appropriate ranking			Dave Preugschat	296-1873	5/1/11	5/1/11
		Conduct field confirmation of 100% of Tier II properties to determine appropriate ranking			Dave Preugschat	296-1873	6/15/11	6/15/11
		Conduct field Inspection of 33 % of Tier III properties			Dave Preugschat	296-1873	8/15/11	8/15/11
		Conduct Program review to determine effectiveness			Dave Preugschat	296-1873	10/15/11	10/15/11
		Conduct field Inspection of 33 % of Tier III properties			Dave Preugschat	296-1873	12/15/11	12/15/11
		Conduct field Inspection of 33 % of Tier III properties			Dave Preugschat	296-1873	12/15/11	12/15/11
		Conduct field Inspection of 33 % of Tier III properties			Leo Griffin	296-1815	12/15/12	12/15/12
		Conduct field Inspection of 33 % of Tier III properties			Leo Griffin	296-1815	12/15/13	TBD

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C		Permittee shall establish and implement policies and procedures to reduce pollutants in discharges from lands owned or maintained by the Permittee subject to this permit. Lands owned or maintained by the Permittee include but are not limited to: parks, open space, road right-of-ways, maintenance yards, and stormwater treatment and flow control facilities.	Douglas Navetski	68311	8/16/08	8/16/08
	Done: Yes/No	Milestones:				
		Begin implementation of SPPM	Dave Preugschat	296-1873	1/15/95	1/15/95
		Begin implementation of IPM	Dave Preugschat	296-1873	11/15/99	11/15/99
		Begin implementation of SiMPLa	Dave Preugschat	296-1873	11/30/09	11/30/09
		Develop tiered analysis protocols to rank properties in determination of risk for pollutant loading to MS4	Dave Preugschat	296-1873	4/5/10	4/5/10
		Conduct tiered analysis	Dave Preugschat	296-1873	5/1/11	5/1/11
		Conducted field confirmation of Tier I properties	Dave Preugschat	296-1873	6/15/11	6/15/11

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Conduct field confirmation of 50% of Tier II properties to determine appropriate ranking	Dave Preugschat	296-1873	8/15/11	8/15/11
Conduct field confirmation of 100% of Tier II properties to determine appropriate ranking	Dave Preugschat	296-1873	10/15/11	10/15/11
Conduct field Inspection of 33 % of Tier III properties (SCIP) to determine implementation and effectiveness of SiMPLa	Dave Preugschat	296-1873	12/15/11	12/15/11
Conduct field Inspection of 33 % of Tier III properties	Douglas Navetski	68311	12/15/11	12/15/11
Conduct field Inspection of 33 % of Tier III properties	Dave Preugschat	296-1873	12/15/11	12/15/11
Conduct Program review to determine effectiveness	Leo Griffin	296-1815	12/15/12	12/15/12
Conduct field Inspection of 33 % of Tier III properties	Leo Griffin	296-1815	12/15/12	12/15/12
Conduct Program review to determine effectiveness	Leo Griffin	296-1815	12/15/13	TBD
Conduct field Inspection of 33 % of Tier III properties	Leo Griffin	296-1815	12/15/13	TBD

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed	
S5C		9.b.viii Develop and implement an ongoing training program for employees of the Permittee who have primary construction, operations or maintenance job functions could impact stormwater quality. Follow-up training shall be provided as needed to address changes in procedures, techniques or staffing. Permittees shall document and maintain records of the training provided and the staff trained.	Douglas Navetski	68311	2/16/09	2/16/09	
		Done: Yes/No	Milestones:				
		Review training records of all applicable staff	Dave Preugschat	296-1873	6/1/08	6/1/08	
		Provide training sessions for staff needing the training, initial or follow-up	Dave Preugschat	296-1873	10/10/08	10/10/08	
		Review records to ensure all applicable staff were trained	Dave Preugschat	296-1873	1/15/10	1/15/10	
		Provide training sessions for staff needing the training, initial or follow-up	Dave Preugschat	296-1873	9/15/11	9/15/11	
		Review records to ensure all applicable staff were trained	Leo Griffin	296-1815	6/15/12	6/15/12	
		Provide training sessions for staff needing the training, initial or follow-up	Leo Griffin	296-1815	9/15/12	9/15/12	
		Review records to ensure all applicable staff were trained	Leo Griffin	296-1815	6/15/13	TBD	
		Provide training sessions for staff needing the training, initial or follow-up	Leo Griffin	296-1815	9/15/13	TBD	

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

S5C	9.b.ix	Develop and implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.	Douglas Navetski	68311	2/16/09	2/16/09
		Done: Yes/No	Milestones:			
		Determine if DES Div owns/operates any applicable facilities	Dave Preugschat	296-1873	6/15/08	6/15/08
		Develop SWPPP if determined needed	Dave Preugschat	296-1873	8/15/08	8/15/08
		Implement SWPPP if needed	Dave Preugschat	296-1873	9/15/08	9/15/08
		Annual Reassessment of SWPPP applicability	Dave Preugschat	296-1873	6/1/2010	6/1/2010
		Annual Reassessment of SWPPP applicability	Dave Preugschat	296-1873	6/1/2011	6/1/2011
		Annual Reassessment of SWPPP applicability	Leo Griffin	296-1815	6/1/2012	6/1/2012
		Annual Reassessment of SWPPP applicability	Leo Griffin	296-1815	6/1/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Public Health  
 Dept: PHSKC  
 Permit Lead: Larry Fay  
 Email: [larry.fay@kingcounty.gov](mailto:larry.fay@kingcounty.gov)  
 Phone: 296-9733

Permit Cycle: 2007-2013

Permit Condition	
S5C	2.b.i

Compliance Action
Map all known MS3 outfalls, receiving waters, Structural BMPs
<b>Milestones:</b>
Submit required mapping info to mapping committee for master County drainage database
Update master County drainage database with new mapping info as available
Participate in technical committee develop list of elements & taxonomy
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
Participate in Mapping Oversight Committee & submit new data
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Participate in Mapping Oversight Committee & submit new data

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Larry Fay	296-7933	8/15/08	8/18/08
Larry Fay	296-7933	10/31/08	10/30/08
Larry Fay	296-7933	12/31/08	1/10/09
Larry Fay	296-7933	6/31/10	6/31/10
Larry Fay	296-7933	9/31/10	9/31/10
Larry Fay	296-7933	12/31/2010	12/31/2010
Larry Fay	296-7933	3/31/2011	3/31/2011
Larry Fay	296-7933	6/31/11	6/31/11
Larry Fay	296-7933	9/31/11	9/31/11
Larry Fay	296-7933	6/31/12	6/31/12
Larry Fay	296-7933	9/31/12	9/31/12
Dave Cantrell	296-7933	6/31/13	TBD
Dave Cantrell	296-7933	9/31/13	TBD

Permit Condition	
S5C	2.b.i

Compliance Action
Initiate program to map connections points with other MS3s
<b>Milestones:</b>
Ensure that drainage system mapping data for any PHSKC facilities are in county drainage mapping database

Responsible Party	Phone	Target Date	Date Completed
Douglas Navetski	296-8311	2/16/09	2/16/09
Larry Fay	296-7933	2/16/09	2/16/09

## King County NPDES Muni Stormwater Permit

### Permit Compliance Tracking Form

Ensure that drainage system mapping data for any PHSKC facilities are in county drainage mapping database	Larry Fay	296-7933	5/15/10	5/15/10
Ensure that drainage system mapping data for any PHSKC facilities are in county drainage mapping database	Larry Fay	296-7933	5/15/11	5/15/11
Ensure that drainage system mapping data for any PHSKC facilities are in county drainage mapping database	Larry Fay	296-7934	5/16/12	5/16/12
Ensure that drainage system mapping data for any PHSKC facilities are in county drainage mapping database	Dave Cantrell	296-7934	5/16/13	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: PHSKC  
 Dept: Environmental Health  
 Permit Lead: Larry Fay  
 Email: [larry.fay@kingcounty.gov](mailto:larry.fay@kingcounty.gov)  
 Phone: 296-7933

Year	2007-13
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Permit Condition	
S5C	3.b.i

Compliance Action	Responsible Party	Phone	Target Date	Date Completed
No later than 1 year after the effective date of this permit, establish, in writing, and begin implementation of, intra-governmental (internal) coordination agreement(s) or Executive Directive(s) to facilitate compliance with the terms of this permit.	Douglas Navetski	296-8311	2/16/09	2/16/09
<b>Milestones:</b>				
Implement the signed Executive Order	Larry Fay	296-7933	11/20/07	11/20/07
Designate coordinating Permit Lead for custodial agency	Larry Fay	296-7933	12/31/07	12/31/07
Participate in coordination meetings with Permit staff	Larry Fay	296-7933	9/30/07	9/11/07
Participate in coordination meetings with Permit staff	Larry Fay	296-7933	10/31/08	7/23/08
Participate in coordination meetings with Permit staff	Larry Fay	296-7933	10/31/2008	10/23/2008
Participate in coordination meetings with Permit staff	Larry Fay	296-7933	10/31/2009	9/1/2009
Participate in quarterly permit lead meetings	Larry Fay	296-7933	3/31/2010	5/6/2010
Participate in quarterly permit lead meetings	Larry Fay	296-7933	9/30/2010	8/10/2010
Participate in quarterly permit lead meetings	Larry Fay	296-7933	11/31/10	11/10/2010
Participate in quarterly permit lead meetings	Larry Fay	296-7933	4/15/2011	4/28/2011
Participate in quarterly permit lead meetings	Larry Fay	296-7933	7/15/2011	7/20/11
Participate in quarterly permit lead meetings	Larry Fay	296-7933	10/15/2011	10/27/11
Participate in quarterly permit lead meetings	Larry Fay	296-7933	3/15/2012	3/7/12
Participate in quarterly permit lead meetings	Larry Fay	296-7933	6/15/2012	6/15/2012
Participate in quarterly permit lead meetings	Larry Fay	296-7933	9/15/2012	9/15/2012
Participate in quarterly permit lead meetings	Dave Cantrell	296-7933	6/15/2013	TBD

# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Participate in quarterly permit lead meetings	Dave Cantrell	296-7933	9/15/2013	TBD
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# King County NPDES Muni Stormwater Permit

## Permit Compliance Tracking Form

Work Group: Public Health  
 Dept: PHSKC  
 Permit Lead: Larry Fay  
 Email: [larry.fay@kingcounty.gov](mailto:larry.fay@kingcounty.gov)  
 Phone: 296-9733

Permit Cycle: 2007-2013

Permit Condition	Done: Yes/No	Compliance Action	Responsible Party	Phone	Target Date	Date Completed
S5C	8.b.i	Implement program to prevent, identify and respond to illicit connections and illicit discharges	Larry Fay	296-7933	2/16/07	2/16/99
		<b>Milestones:</b>				
		Identify King County Agencies with responsibility for property management (custodial agencies)	Douglas Navetski	68311	2/16/07	2/16/07
		Review custodial agencies' IC/IDDE programs and identify gaps in programs and agencies without coverage. Address gaps and coverage issues.	Douglas Navetski	68311	12/31/08	12/31/08
		Review PHSKC IC/IDDE program to ensure minimum standards met.	Larry Fay	296-7933	6/10/10	6/10/10
		Review PHSKC IC/IDDE program to ensure minimum standards met.	Larry Fay	296-7933	11/30/10	11/30/10
		Review PHSKC IC/IDDE program to ensure minimum standards met.	Larry Fay	296-7933	11/30/11	11/30/11
		Review PHSKC IC/IDDE program to ensure minimum standards met.	Larry Fay	296-7933	11/30/12	11/30/12
		Review PHSKC IC/IDDE program to ensure minimum standards met.	Dave Cantrell	296-7933	11/30/13	TBD
S5C	8.b.iii	<b>Compliance Action</b>	<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
		Permittee shall ensure that all municipal field staff who are responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges, including spills, improper disposal and illicit connections, are trained to conduct these activities.	Larry Fay	296-7933	8/16/08	8/16/08
		<b>Milestones:</b>				
		Identify first responders within PHSKC	Larry Fay	296-7933	2/15/08	2/15/08
	Review training records of first responders to ensure all applicable staff were trained to identify, report and terminate	Larry Fay	296-7933	2/15/08	2/15/08	
	Provide training sessions for staff needing the training, initial or follow-up	Larry Fay	296-7933	5/15/10	5/15/10	

**King County NPDES Muni Stormwater Permit**

**Permit Compliance Tracking Form**

Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up

Larry Fay	296-7933	7/15/10	7/15/10
Larry Fay	296-7933	5/15/11	5/15/11
Larry Fay	296-7933	7/15/11	7/15/11
Larry Fay	296-7933	9/15/12	9/15/12
Larry Fay	296-7933	11/15/12	11/15/12
Dave Cantrell	296-7933	9/15/13	TBD
Dave Cantrell	296-7933	11/15/13	TBD

Permit Condition	
S5C	8.b.iv

<b>Compliance Action</b>
Implement training program for field staff who deal with IC/IDDE as part of normal job
<b>Milestones:</b>
Identify staff who may encounter IC/IDDE situations (field staff) within the custodial agencies.
Review records to ensure all applicable staff are trained within PHSKC to identify, and report IC/IDDE.
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained
Provide training sessions for staff needing the training, initial or follow-up
Review records to ensure all applicable staff were trained

<b>Responsible Party</b>	<b>Phone</b>	<b>Target Date</b>	<b>Date Completed</b>
Larry Fay	296-7933	2/16/09	2/16/09
Larry Fay	296-7933	2/15/08	2/15/08
Larry Fay	296-7933	2/15/08	2/15/08
Larry Fay	296-7933	8/15/10	8/15/10
Larry Fay	296-7933	10/15/10	10/15/10
Larry Fay	296-7933	8/15/11	8/15/11
Larry Fay	296-7933	10/15/11	10/15/11
Larry Fay	296-7933	8/15/12	8/15/12
Larry Fay	296-7933	10/15/12	10/15/12
Dave Cantrell	296-7933	8/15/13	TBD
Dave Cantrell	296-7933	10/15/13	TBD

**Appendix 7 -  
Source Control Inspection List  
Development Process**

## **NPDES Source Control Inspection Program - Site List Development and Modification**

### **Introduction**

This document has been developed in collaboration with other Phase I jurisdictions and describes the program by which King County will prepare, and annually modify, a list of potentially pollution generating sites that meets the requirements of NPDES Phase 1 municipal stormwater permit section S5C7. Permittees must inspect 20% of the sites on the list in any given calendar year, but are not required to inspect 100% of sites over a 5 year period. Consequently, the list must contain a well-defined set of guidelines to identify appropriate sites and processes to include or remove these sites from a central database.

### **Business License and Parcels**

Depending on the permittee (City or County), the basic elements in compiling the initial list is either the business license (for Cities) or the legal land parcel (for Counties). The difference is due to the fact that most Cities have local business licenses, whereas Counties do not. However, due to the complexities and limitations of each method, the initial list may contain elements generated by both office records and field surveys. Through time, the list will be refined to maximize the number of elements that should be regulated as “sites” in the context of the source control program of the NPDES permit.

### **Official date of list**

Permittees must inspect 20% of the sites on the list in any given calendar year. To determine compliance with this requirement, the number of sites must be fixed for that year. The permit does not define a date upon which the official list for the year will be fixed. For the purposes of establishing the official number of sites by which to determine compliance metrics for any given calendar year, an “official” list will be established at a date within the jurisdiction’s budget preparation schedule, with the understanding that as businesses are identified through field survey or other methods cited in this paper, they will be added (or dropped) from the list, as appropriate. Although the total number of businesses will remain constant, it is anticipated that the specific named businesses will shift as businesses relocate or additional businesses missed in records are found in the field. Thus the final list of inspected businesses at the end of the year may include some businesses not originally on the “official” list.

### **Initial site list development**

King County developed its’ list for the 2013 program using the current list of developed parcels located in the current stormwater audit program inventory. King County will modify the inventory for use in future years by the following methods.

#### **Step 1 – assemble list of sites based on office records**

**Developed parcels with commercial or industrial zoning:** King County has used the current commercial or similar stormwater fee classification in the drainage utility database for commercial and industrial zoned parcels. This list will be supplemented using the current municipal business licenses and any other sets of municipal records.

**Developed parcels with multifamily zoning (includes both apartments and condominiums):** King County has defined properties with 3 or more residential units and current multifamily or similar stormwater fee classification for inclusion in the drainage utility database based on potential impact.

### **Step 2 – Add any sites identified by field or database surveys**

These databases are both internal to the County and external from other agencies. The databases include the following:

1. The existing database of business/commercial sites that have approved flow control and/or water quality treatment facilities (1,458 as of 2/1/09), which is maintained SWS;
2. The existing database of business/commercial sites with simple drainage conveyance systems (418 as of 2/1/09), which is maintained by SWS;
3. The existing database of all properties owned/operated by King County (2,500), which is maintained by King County Real Estate Services and the Department of Executive Services Facility Management section; and

These databases and their respective updates will be used to modify the current list of addresses, and winnow out those already listed via commercial, industrial, or multifamily zoning. These datasets will be verified by a combination of telephone, database and field verifications of the businesses existence, and relevance for inclusion in this program.

An additional step in the program will be to identify businesses by conducting field surveys of targeted roads or geographic areas with potential high density of businesses of interest. The program will select target roads or geographic areas and conduct “windshield surveys” to field identify business sites based on visible evidence of commercial activity such as advertising signs or commercial-scale or type of material storage or activities. These businesses will be verified by comparing them to the current database.

### **Modification of initial site list**

King County will modify the initial list by the following methods:

- Modifying multiple legal parcels that should be dealt with as one site.
- Modifying single parcels with multiple businesses (e.g. shopping malls) that should be dealt with as multiple sites.
- Correcting database as occupant records change.
- Adding developed sites shown as undeveloped in office records.
- Identifying the presence of pollutant generating activities using citizen reports, field investigations, or other methods.

### **Exclusions from the List:**

Due to overlapping authority in stormwater compliance, Phase I Permittees propose the following exclusions from the Appendix 8 List:

- NPDES permitted sites within other permittee's jurisdiction;
- Port of Seattle and Tacoma properties;
- Sites which fall under the jurisdiction of, are owned, or managed by Secondary Permittees; and,
- Those categories, which through an audit of existing inspection reports or field surveys representative of the category, are found to be non-pollutant generating.

### **Counting Inspections**

For the purpose of complying with the permit conditions to inspect 20% of the sites on the permittee's "official" list of pollution-generating businesses, the following shall be counted:

1. Inspections performed by staff of the permittee;
2. Inspections performed by contractors representing the permittee and for which the permittee performs any needed follow-up enforcement activity;
3. Inspections performed by staff from other jurisdictions under an MOA or MOU with the permittee (e.g. inspections performed by King County in the Densmore basin under an MOA);
4. Inspection performed by Source Control Specialists funded by Ecology as part of the Local Source Control Program or the Urban Waters Initiative;

**Appendix 8 -  
King County Progressive Enforcement  
Table**

# King County Stormwater Program Progressive Enforcement Table

Version 1.0

<b>Action</b>	<b>What is it?</b>	<b>When is it sent?</b>
<b>Corrective Action Required (Warning)</b>	Letter outlining what actions are required to bring property into compliance	Sent after initial audit or complaint inspection
<b>Re-inspection</b>	An inspection done for purposes of determining and documenting compliance.	Done after the deadline specified in the Correction Action letter.
<b>Compliance Letter</b>	Letter acknowledging corrections made.	Upon verification of compliance with Correction Action Required Letter or (or Compliance Schedule if done before N&O issued)
<b>Notice of Violation (Noncompliance)</b>	Letter detailing code violations and required remedy	Sent after failure to respond to correction action letter or come into compliance by specified date.
<b>Compliance Schedule</b>	Written agreement between county & RP that outlines what will be done by when	Immediately after agreement reached
<b>Notice and Order</b>	Written notice that details violation and penalties	Sent after failure to respond to Notice of Noncompliance or failure to complete corrective action in Compliance Schedule on time. <i>Must be sent w/in 120 days of receiving complaint or discovering violation or w/in 30 days of the end of the compliance schedule deadline.</i>
<b>Certificate of Compliance</b>	Certificate describing that property is in compliance and whether or not there are outstanding civil penalties for which liens have been recorded.	Upon verification of compliance