



NPDES Small MS4 General Permit (OHQ000002) Annual Reporting Form

Instructions for completing this form:

- OHQ000002 requires that this form be used when submitting annual reports. You may request approval to use your own reporting format.
- Annual Reports are due annually on or before April 1st.
- Complete the form and sign and date the certification statement below.
- If more space is needed than is provided, identify within the provided space that Attachment A, B, C, etc. has been attached.
- If an item of the form is not applicable for your program (such as street sweeping), fill in N/A in the space provided.
- Don't include attachments such as brochures, newspaper clips, sign-in sheets, etc. related to your program with this form. You only need to summarize these within this report. These records must be filed and will be needed during program audits.
- When complete, submit this Annual Report form to the following address:
Ohio Environmental Protection Agency
Division of Surface Water
Storm Water Program – Small MS4
P.O. Box 1049
Columbus, Ohio 43216-1049

Small MS4 Annual Report for Year: 2013		
Ohio EPA Facility Permit Number: 4GQ00002*BQ		
Name of MS4: City of Dublin		
Primary Contact: Kristin K. Yorke, P.E.		Title: Civil Engineer
Mailing Address: 5800 Shier Rings Road		
City: Dublin	Zip Code: 43016	County: Franklin
Telephone Number: 614-410-4657		Email Address: kyorko@dublin.oh.us

Include or attach a Table of Organization. Indicate who (name and contact information) is responsible for overall management and implementation of your program, and if different, each minimum control measure of your program. Identify how development and implementation across multiple positions, agencies and departments occur. Also, identify any Memorandum of Understandings (MOUs) or other such agreements that exist.

Kristin K. Yorke, P.E. is responsible for the overall management of the program with assistance and input from other departments in the City. Cooperation among City Departments occurs by simply asking for information, formal agreements do not exist. Dublin Arts Council works with and provides information at our request, no formal agreement exists.

Please find that Attachment A contains the table of organization.

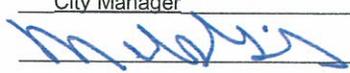
Please find that Attachment B contains the work agreement with Franklin Soil and Water Conservation District.

Please find that Attachment C contains the contract with Franklin County General Health District.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including possibility of fine and imprisonment for knowing violations.

Print Name: Marsha I. Grigsby

Print Title: City Manager

Signature:  _____ Date: March 28, 2014



ANNUAL REPORT FORM

State of Ohio Environmental Protection Agency

SMALL MS4



PUBLIC EDUCATION & OUTREACH

Estimate Your Permit Area's Total Population: **40,874**

BMP (mechanism) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	% of Target Audience Reached	Summary of Results	Effective (Yes or No)
Walking of Waterways	Evaluate current condition of waterways in Dublin	Walking of Waterways	Property owners adjacent to Dublin's natural waterways.	We budgeted \$40,000 in 2013 to hire FSWCD to establish a database and inspect our waterways. Contract is attached in Attachment D	1. FSWCD worked with Dublin GIS staff to establish a waterway inspection database. Once the database was established, they started walking the waterways and entering data. 2. 187 stream side homes received letters what the land owner can do to influence water quality on their property.	Yes
Engineering & Franklin Soil and water Conservation District						
Water Conservation	Rain Barrel Class attendance	Stormwater Management and Conservation	Dublin residents and users of the DCRC	100% of residents received the rec center brochure where the classes were advertised. 105 participants in the classes. 0.3%	1. Residents are becoming aware of the various methods of cleaning stormwater. 2. 105 residents attended a rain barrel class 3. Tweets sent out from our website.	Yes
Engineering						
Curbside Leaf Collection	Proper management of leaf storage prior to City pick-up	Do not rake leaves into roadway – pile on tree lawn for collection	Residents	75% of the residents participate, 50% of which keep leaves out of the street – 5% increase over last year	1. Distributed 4,000 door hangers to residents. 2. Video on our website 3. Rake Right sandwich board signs at 20 locations around the City.	Yes
Street & Utilities, Community Relations, & Engineering						
Guidance for Healthy Lawns	Proper fertilization for healthy lawns and waterways.	Guide to healthy lawns	Residents.	Article in Healthy (recreation center brochure) distributed to all households – 100%	Residents becoming aware of proper fertilization.	Yes
Engineering, Recreation Services & Community Relations						
Water Quality	Overall water quality Awareness	Learn what the City is doing and what residents can do to preserve the environment	Residents	1. Growing Green Expo - 0.4% - 163 adults attended – kids were not counted. 2. Rotary Club presentation – 0.14% 59 people 3. Other presentations – 14 residents 4. Students – 4%	1. FSWCD staffed one water quality display at this Growing Green to directly contact with 163 people 2. FSWCD educated 1,337 students and had 283 students participate in Conservation Poster Contest	Yes
City Departments & Franklin Soil & Water						
Hazardous Waste & E-Waste Disposal	Less Waste to waterway – including groundwater	Only Flain Down the Drain	Residents	1. Approximately 1.3% - 530 Dublin Households participated in Hazardous Waste Collection	1. 20,027 pounds of hazardous waste materials collected from Dublin households. 2. 15 tons of e-waste recycled	Yes
Streets & Utility & SWACO						



PUBLIC EDUCATION & OUTREACH

- Summarize activities you plan to undertake during the next reporting cycle.

BMP (mechanism) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	% of Target Audience to be Reached	Summary of Planned Activities	Proposed Schedule
Curbside Leaf Collection	Increase awareness on proper disposal of leaves	Only Rain Down the Drain	Residents	80%	Presentations or disposition of relevant materials	Fall
Engineering and Community Relations						
Waterway Walking	Evaluate current condition of waterways in Dublin	Walking Waterways	Property owners adjacent to Dublin's waterways	15%	We have a budget of \$40,000 to continue to walk waterways.	Spring and Summer 2014
City Staff & FSWCD						
Stormwater Theme	Overall Environmental Awareness	Water Conservation using proper watering of lawns.	Residents	100%	Door hanger distributed to all residents.	Spring 2014
City Staff						



SMALL MS4 ANNUAL REPORT FORM

PUBLIC INVOLVEMENT/PARTICIPATION

BMP (Activity) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People Participated	Summary of Results	Effective (Yes or No)
Certified Community Wildlife Habitat	Preserving the Scioto River	Sustainability and water health	Residents, schools and businesses	1. 171 homes 2. 5 schools 3. 1 business 4. 18 City Parks	1. 43 rd Community in the Country 2. First Community in the state of Ohio	Yes
Nature Coordinator						
Mike Utt Memorial River Clean up August 18, 2012	Trash Removal along the Scioto River	Only Rain Down the Drain	Residents	70 People participated	Water Quality Monitoring also taught.	Yes
Volunteer Services						
River Boxes & Stream	Residents visiting Dublin Waterways and seeing water related programming	Only Rain Down the Drain	Residents	Estimate close to 9,787 visitors to Riverboxes in Dublin	9,787 entries in journal, web site visits and posts.	Yes
Dublin Arts Council						
Water Quality Instruction to Students	Awareness of our impacts on the water quality of Dublin's water bodies	Only Rain Down the Drain	Students and adults	1. Park Walks - 70 attendees 2. Fish/Water Lesson - 29 attendees 3. Stream Walk - 27 attendees 4. Ecology concepts - 111 attendees 5. Stream Quality Monitoring - 133 attendees	Water Quality Awareness for attendees.	Yes
Nature Coordinator						
Student Programming	Interaction with students and teachers	Only Rain down the Drain	Dublin students and teachers	1. Conservation Poster Contest 283 Dublin Students Participated 2. Soil and Soil Erosion to 1,337 students.	Water Quality Awareness for attendees	Yes
Franklin Soil and Water Conservation District						



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

PUBLIC INVOLVEMENT/PARTICIPATION

- Summarize activities you plan to undertake during the next reporting cycle.

BMP (Activity) & Responsible Party	Measurable Goal	Theme or Message	Target Audience	Estimate of People to Participate	Summary of Planned Activities	Proposed Schedule
Mike Uft Memorial River Clean up	Trash Removal at various locations along the Scioto River	Only Rain Down the Drain	Residents	50 People	Waste Removal from the Scioto River	August 2014
Volunteer Services						
River Boxes	Residents Visiting Dublin Waterways	Only Rain Down the Drain	Residents	10,000 Visitors		Throughout the year
Dublin Arts Council						
Water Quality Instruction to Students	Awareness of our impacts on the quality of Dublin's water bodies	Only Rain Down the Drain	Students	250 students	1. Stream/pond/river/ class 2. Nature Camp Water Day 3. Water Quality Monitoring	Throughout the year
Nature Coordinator						



ILLCIT DISCHARGE DETECTION & ELIMINATION (IDDE)

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Cite Local Code(s) Being Used (If available, web link for code(s))	Summary of Results or Activities	Effective (Yes or No)				
Ordinance or Other Regulatory Mechanism	Ordinance in Place	Yes	Chapter 51 – Sewer Regulations www.dublinohiousa.gov Our entire city code is available from this site.	1. Tie-in required if sewer within 100 feet of property line 2. Tie-in required with in 180 days of line being extended to a new location 3. Penalty in code	Yes				
Engineering									
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates		Effective (Yes or No)				
Storm Sewer System Map	All facilities are on map and new facilities are added to map when they are built.	Yes	Consultant update on details for asset management Development project update		Yes				
Engineering									
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates		Effective (Yes or No)				
HSTS Mapping and List	Received mapping info from Franklin County Public Health	Yes	Received maps from Franklin County Public Health on HSTS in Dublin As new HSTS are built, they are added to the database. In 2009, Franklin County Public Health provided information on areas out side of Dublin that outlet to Dublin water ways.		Yes				
Engineering									
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Summary of Activities or Updates		Effective (Yes or No)				
IDDE Plan	Utility Extension Policy	No	Work on this policy to prioritize possible sewer/water extensions to un-served areas began in 2009. This policy was worked on in 2013 and will include an implementation plan. Intend to provide information to Council in 2014.		No				
Engineering									
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Outfalls Screened	# of Dry-Weather Flows Identified	# Of Illicit Discharges:				
Dry-Weather Screening of Outfalls	Dry weather screen outfalls in open drainage of the North Fork Indian Run	Yes	915 outfalls screened (MS4 & other), 1,484 total features screened (catch basins, crossovers, etc.) during dry weather screening	160 (MS4 & other)	<table border="1"> <thead> <tr> <th>Identified*</th> <th>Eliminated</th> </tr> </thead> <tbody> <tr> <td>12 potential illicit discharges identified during dry weather screening (MS4 and other). Franklin County Public Health confirmed 1 illicit discharge.</td> <td>1 confirmed from Franklin County Public Health</td> </tr> </tbody> </table>	Identified*	Eliminated	12 potential illicit discharges identified during dry weather screening (MS4 and other). Franklin County Public Health confirmed 1 illicit discharge.	1 confirmed from Franklin County Public Health
Identified*	Eliminated								
12 potential illicit discharges identified during dry weather screening (MS4 and other). Franklin County Public Health confirmed 1 illicit discharge.	1 confirmed from Franklin County Public Health								
Total # of Outfalls 915*									
Franklin Soil and Water Conservation District									
*includes all outfalls screened, MS4 and others,									

*Include an attachment which provides schedules for elimination of illicit connections that have been identified but have yet to be eliminated.



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE)

- Summarize activities you plan to undertake for the next reporting cycle.

BMP & Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Storm Sewer System Map Engineering and GIS	Continue to map our underground facilities as they are built	Review and update details of BMP on mapping system	By end of the year
HSTS Mapping and List Engineering and GIS	Review and update maps to determine missing information. Work to fill in missing information.	Map and verify obvious missing data and investigate to obtain missing information	By end of the year
IDDE Plan Engineering	Policy of sewer extensions approved by Council	Finalize policy and present to Council	By end of the year
Dry-Weather Screening of Outfalls Engineering and GIS	Continue working with Franklin Soil and Water Conservation District to investigate outfalls and continue sampling.	Additional investigation and sampling	By end of the year



SMALL MS4 ANNUAL REPORT FORM

CONSTRUCTION SITE RUNOFF CONTROL

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Cite Local Code(s) Being Used (If available, web link for code(s))	Summary of Results or Activities	Effective (Yes or No)
Ordinance or Other Regulatory Mechanism Chapter 53 - Engineering	Compliance with Code for all projects that cause a change of impervious surface	Yes	Chapter 53 : Stormwater Management and Stream Corridor Protection www.dublinohiousa.gov	All projects submitted for a building permit were reviewed for stormwater compliance	Yes
BMP & Responsible Party Sediment and Erosion Control Requirements Chapter 53 - Engineering	Measurable Goal Compliance with Code for all projects that cause a change of impervious surface	Completed (Yes or No) Yes	Standards Being Used City of Dublin Stormwater Management Design Manual ODNR Rainwater and Land Development	Summary of Results or Activities Continue process requiring inspections on individual lots prior to sanitary sewer.	Effective (Yes or No) Yes
BMP & Responsible Party Complaint Process Chapter 53 - Engineering	Measurable Goal Respond to and correct water quality complaints associated with construction sites.	Completed (Yes or No) Yes	Complaints Received Followed-Up On 1 1	Summary of Results or Activities A large storm event overtopped erosion control measures in Wellington Reserve project. Adjacent pond fountain was turned off and required erosion control measures repaired. We instituted more frequent inspections at this construction site.	Effective (Yes or No) Yes
BMP & Responsible Party Site Plan Review Procedures Design Manual - Engineering	Measurable Goal Review all construction site plans for stormwater compliance	Completed (Yes or No) Yes	# of Applicable Sites Requiring Plans Commercial 36 Subdivisions 10 Individual Lots 148 CIP 9	Summary of Results or Activities All site plans submitted to the City were reviewed for compliance with our Design Manual See attachment E for a list of projects. 1 plan was reviewed in a previous year and built in 2013	Effective (Yes or No) Yes
BMP & Responsible Party Site Inspection Procedures Engineering Inspectors	Measurable Goal Visit all sites weekly or monthly as required	Completed (Yes or No) Yes	Site Inspections Performed # of Applicable Sites 203 # Performed 907 Avg. Frequency Weekly - 233 Monthly - 674	Summary of Results or Activities Private construction sites and individual lots are inspected monthly and public projects are inspected weekly.	Effective (Yes or No) Yes
BMP & Responsible Party Enforcement Procedures Engineering	Measurable Goal Develop process and forms	Completed (Yes or No) Yes	Violations # of Violation Letters 0 # of Enforcement Actions 0	Summary of Results or Activities Policy developed - can be found on our website at www.dublinohiousa.gov	Effective (Yes or No) Yes

*Include an attachment which identifies applicable sites within your jurisdiction for this reporting period.



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

CONSTRUCTION SITE RUNOFF CONTROL

- Summarize activities you plan to undertake during the next reporting cycle.

BMP & Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Ordinance or Other Regulatory Mechanism	No changes needed		
Engineering			
Sediment and Erosion Control Requirements	Continue to work with Developers, Builders and Excavators on the individual lot erosion control Policy		
Engineering			
Complaint Process	No change in process proposed		
Engineering			
Site Plan Review Procedures	No change in process proposed		
Engineering			
Site Inspection Procedures	No change in process proposed		
Engineering			
Enforcement Procedures	Formalize our enforcement process	Follow through and obtain compliance	Throughout the year
Engineering			



SMALL MS4 ANNUAL REPORT FORM

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Cite Local Code(s) Being Used (if available, web link for code(s))	Summary of Results or Activities	Effective (Yes or No)
Ordinance or Other Regulatory Mechanism	Ensure compliance with Code	Yes	Chapter 53 Stormwater Management and Stream Corridor Protection www.dublinohiousa.gov	Review plans, perform inspections and issue occupancy.	Yes
Chapter 53 - Engineering					
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Structural and/or Non-Structural Standards Being Used	Summary of Results or Activities	Effective (Yes or No)
Post-Construction Requirements	Ensure compliance with Code	Yes	City of Dublin Stormwater Design Manual and ODNR Rainwater and Land Development Manual	Review plans, perform inspections and issue occupancy.	Yes
Chapter 53 - Engineering					
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Applicable Sites Requiring Post-Const. BMPs	Summary of Results or Activities	Effective (Yes or No)
Site Plan Review Procedures	Review all site plans for compliance with Stormwater Management Design Manual	Yes	Commercial 21 Subdivisions 10 CIP 6	All projects submitted for a building permit complied with Chapter 53	Yes
Engineering					
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Site Inspections Performed	Summary of Results or Activities	Effective (Yes or No)
Site Inspection Procedures	Inspect all sites for compliance with code	Yes	# Performed 313 Avg. Frequency Every basin every other year	Found 37 need attention out of 368	Yes
Engineering					
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Violations	Summary of Results or Activities	Effective (Yes or No)
Enforcement Procedures	Identify management measure needing attention	Yes	# of Violation Letters 0 # of Enforcement Actions 0	Found 37 need attention out of 368	Yes
Engineering					
BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	# of Sites Requiring Plans/Agreements	Summary of Results or Activities	Effective (Yes or No)
Long-Term O&M Plans/Agreements	Obtain a letter of commitment from each property owner where mechanical units are installed	Yes	1	Requested and received letter from Centre at Perimeter, LLC on Perimeter Drive	Yes
Engineering					



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

- Summarize activities you plan to undertake for the next reporting cycle.

BMP & Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Ordinance or Other Regulatory Mechanism	No action needed		
Engineering			
Post-Construction Requirements	No action needed		
Engineering			
Site Plan Review Procedures	No change in process proposed		
Engineering			
Site Inspection Procedures	No change in process proposed		
Engineering			
Enforcement Procedures	Formalize our enforcement process	Follow through and obtain compliance	Throughout the year
Engineering			
Long-Term O&M Plans/Agreements	Form letter for agreements	Formalize process	Finish process by the end of year
Engineering			



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP & Responsible Party	Measurable Goal	Completed (Yes or No)	Topic(s)	Targeted Audience	# of Employees Attended	Summary of Activity	Effective (Yes or No)	
Employee Training Program	FSWCD Employee Training	Yes	Spill control and HSTS	Employees	69 – most field staff.	Training provided	Yes	
Streets and Utilities								
List of Municipal Facilities Subject to Program								
1. Development Building – 5800 Shier Rings Road			5. Avery Park Water Tank					
2. Service Center- 6555 Shier Rings Road			6. Blazer Parkway Water Tank					
3. Fleet Building – 6351 Shier Rings Road			7. WTFD Station 93					
4. Dublin Road Bloxide Tanks			8. 6825 Avery-Muirfield Drive					
Summarize Maintenance Activities and Schedules								
MS4 Maintenance			Stormwater Maintenance Budget of \$558,515 for 2013			Money was used to repair various facilities around the City.		
Summarize Activities Performed								
Disposal of Wastes		Yes	Procedures Developed (Yes or No)			Document Amounts of Wastes Properly Disposed		
			Waste Contract with SWACO			Residents recycle 46% of their waste. – Less garbage trucks, more recycling trucks are utilized in Dublin.		
			Light bulbs Recycled 607, Batteries Recycled 465 pounds					
			E-Waste recycled 25,918 pounds					
Road Salt		Yes	Covered (Yes or No)			Summarize Measures Taken to Minimize Usage		
			7,832.2			See Attachment F for standard procedures.		
Pesticide & Herbicide Usage		Yes	Procedures Developed (Yes or No)			Summarize Measures Taken to Minimize Usage		
			See attached sheet			See Attachment G for chemical usage lists		
Fertilizer Usage		Yes	Procedures Developed (Yes or No)			Summarize Measures Taken to Minimize Usage		
			See attached sheet			See Attachment G for chemical usage lists		
Street Sweeping		Yes	Procedures Developed (Yes or No)			Document Amount of Material Collected and Properly Disposed		
			Approximately 395 tons taken to a landfill					
Flood Management Projects			Summarize any New or Existing Flood Management Projects that were Assessed for Impacts on Water Quality					
			Code in place – Chapter 151 – We reviewed 4 projects in 2013 for compliance with our code.					



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

- Summarize activities you plan to undertake for the next reporting cycle.

BMP & Responsible Party	Measurable Goal	Summary of Planned Activities	Proposed Schedule
Employee Training Program Engineering	Train Service center employees on good housekeeping measures	Investigate utilizing interactive presentation for training session	By the end of the year
List of Facilities Subject to Program Engineering	All SWP3s completed in 2011	Work completed on all plans in 2011	Update when necessary
MS4 Maintenance Engineering	Budget for 2014 is \$558,515 Additional budget money (\$55,000) for design of a CIP project for minimizing flooding potential in a neighborhood.	Continue to fix stormwater infrastructure problems as we become aware of them.	By the end of the year
Disposal of Wastes Streets and Utilities	No change in process proposed	Continue with our programs	By the end of the year
Road Salt Streets and Utilities	No change in process proposed	Continue with our programs	By the end of the year
Pesticide & Herbicide Usage Parks and open space	Reduce use of Pesticide and Herbicide	Utilize no-mow areas where appropriate Create Pond edge buffers around ponds Monitor ponds for pests	By the end of the year
Fertilizer Usage Parks and open space	Reduce use of Fertilizer	Stop mowing and applying herbicide on pond buffers Utilize no-mow areas where appropriate	By the end of the year
Street Sweeping Streets and Utilities	No change in process proposed		
Flood Management Projects Engineering	No change in process proposed		

PROPOSED CHANGES TO YOUR SWMP (IF ANY)



State of Ohio Environmental Protection Agency

SMALL MS4 ANNUAL REPORT FORM

- Summarize any proposed changes to your SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements. If you fail to satisfy measurable goals for the reporting year, please explain why.

Here are explanations as to why we did not meet some of our measurable goals.

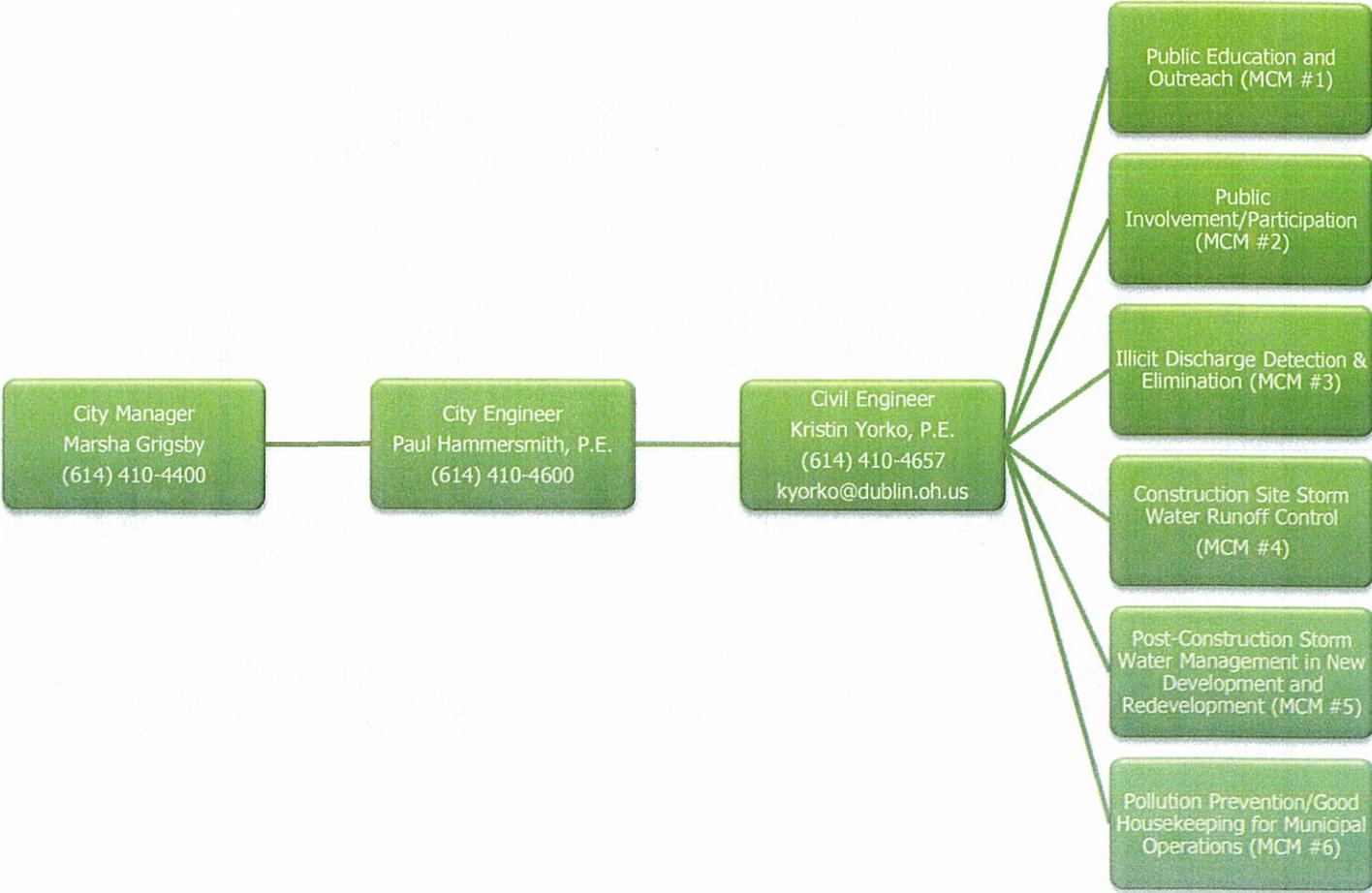
- We concentrated our efforts on IDDE investigations and information gathering this last year, and hope to get a policy to Council in 2014.

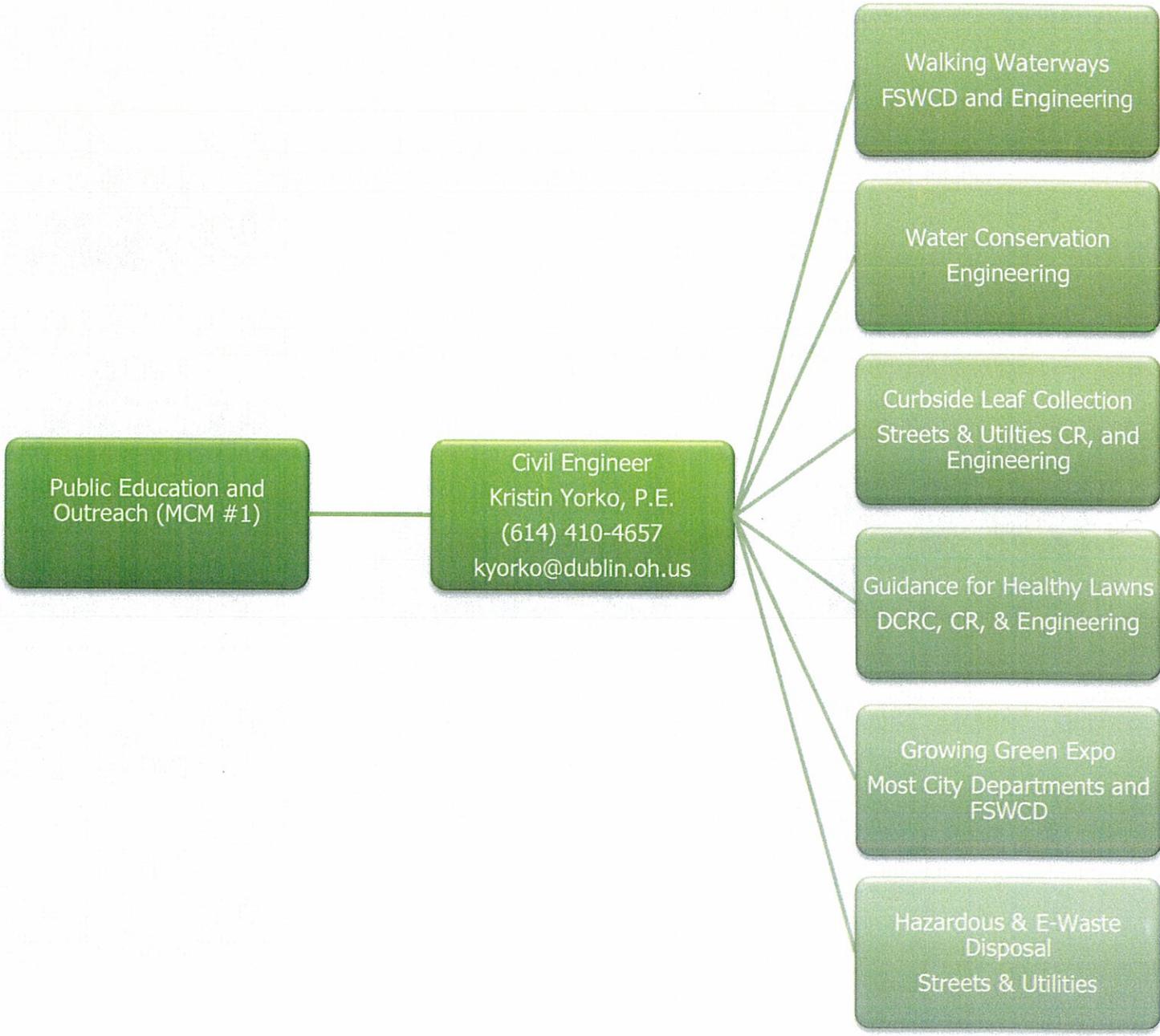
VARIANCES GRANTED (IF ANY)

- Identify and summarize any variances granted under your storm water program.

No Variances issued in 2013

City of Dublin
NPDES Phase II
Storm Water Program
Table of Organization





Public Education and Outreach (MCM #1)

Civil Engineer
Kristin Yorko, P.E.
(614) 410-4657
kyorko@dublin.oh.us

Walking Waterways
FSWCD and Engineering

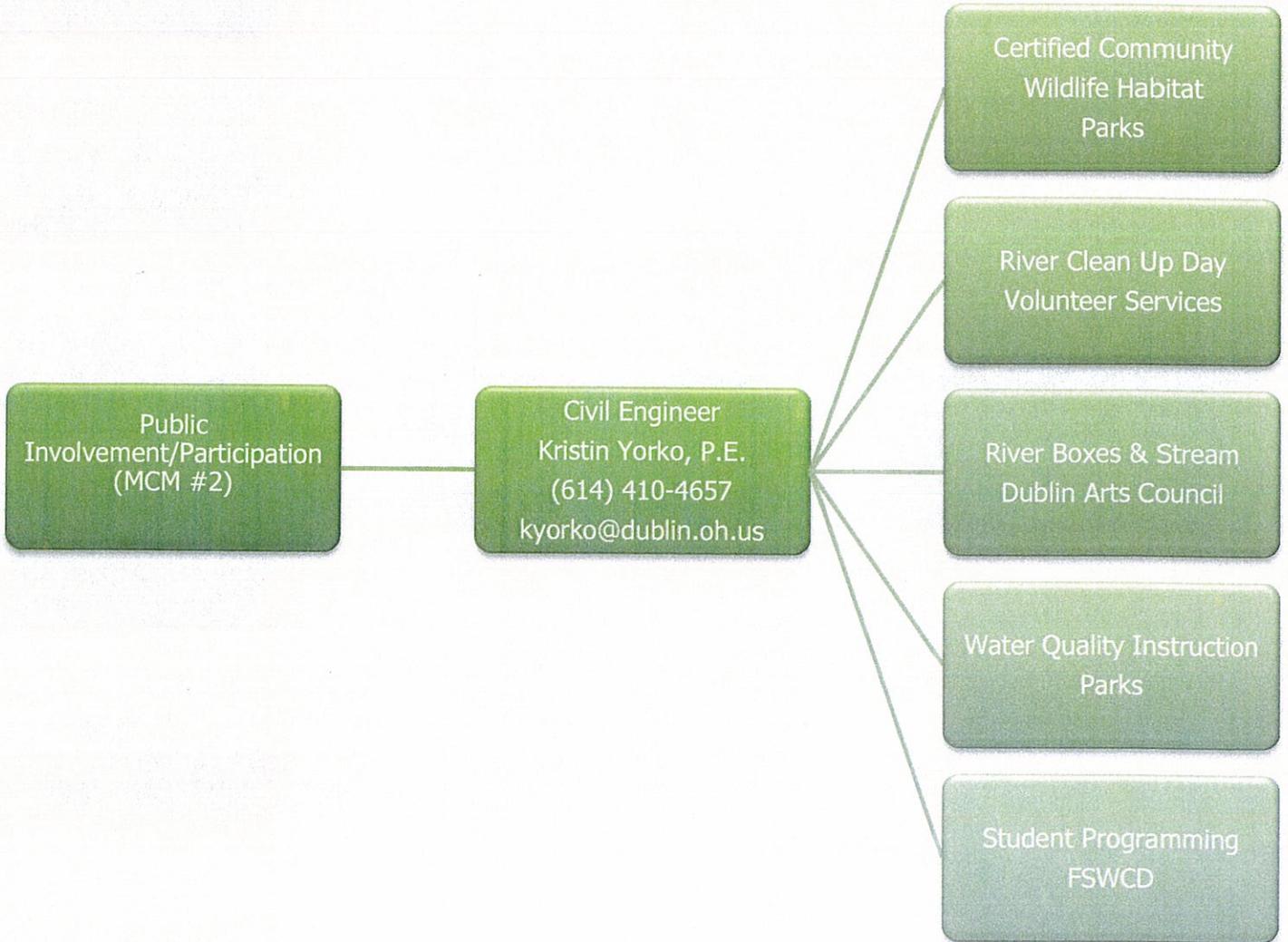
Water Conservation
Engineering

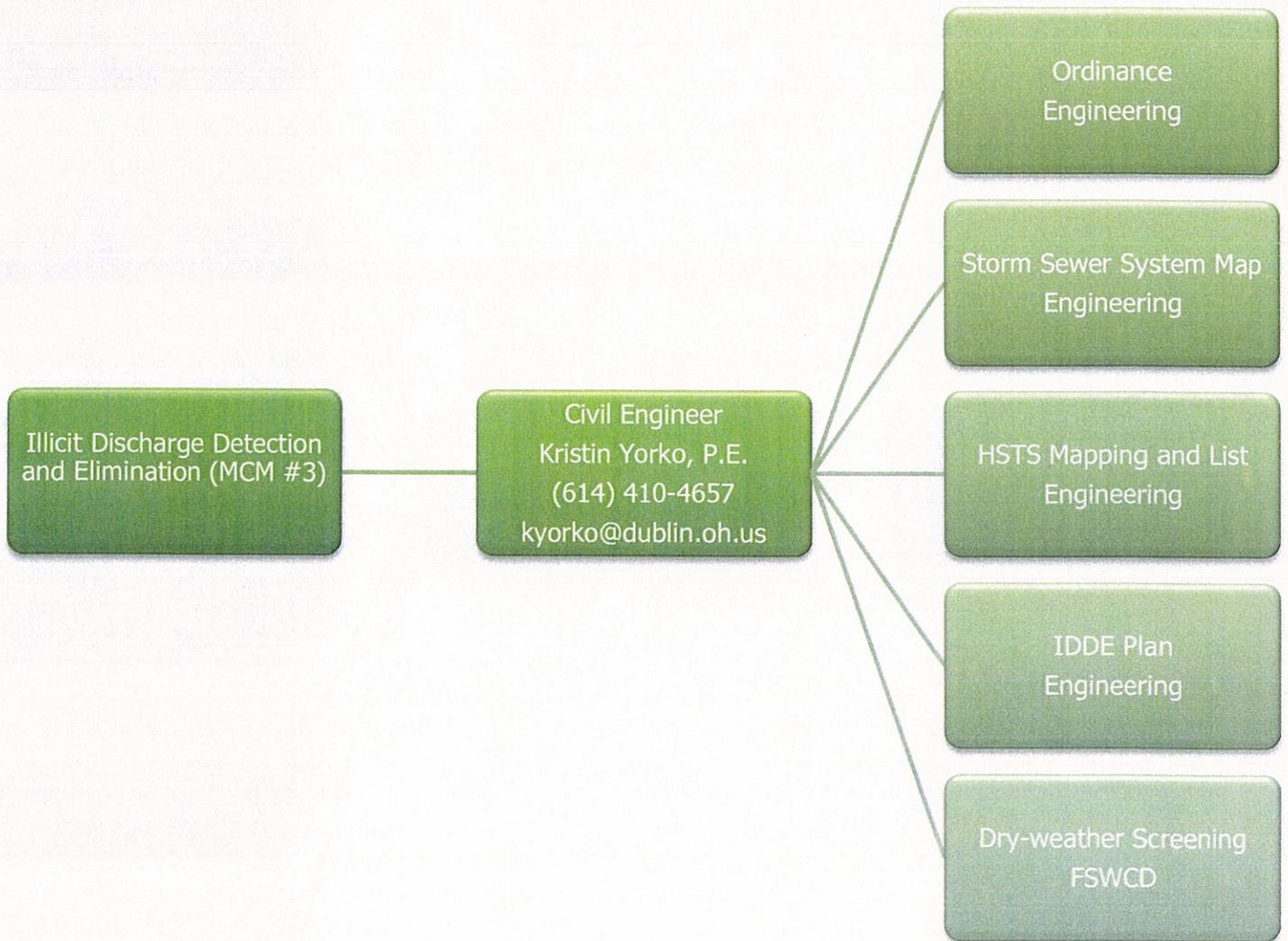
Curbside Leaf Collection
Streets & Utilities CR, and
Engineering

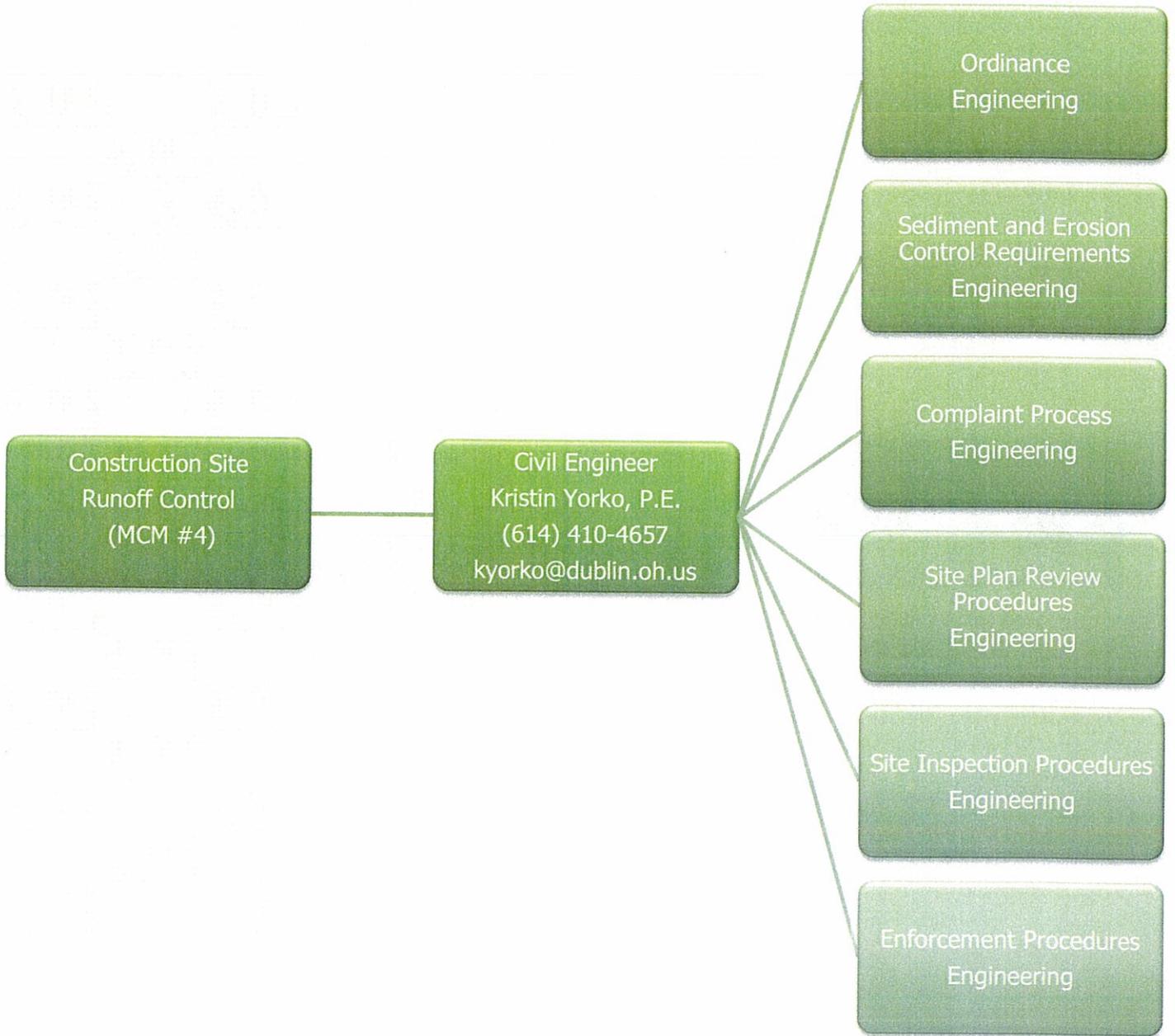
Guidance for Healthy Lawns
DCRC, CR, & Engineering

Growing Green Expo
Most City Departments and
FSWCD

Hazardous & E-Waste
Disposal
Streets & Utilities







Post-Construction Storm Water
Management in New
Development and Redevelopment
(MCM #5)

Civil Engineer
Kristin Yorko, P.E.
(614) 410-4657
kyorko@dublin.oh.us

Ordinance
Engineering

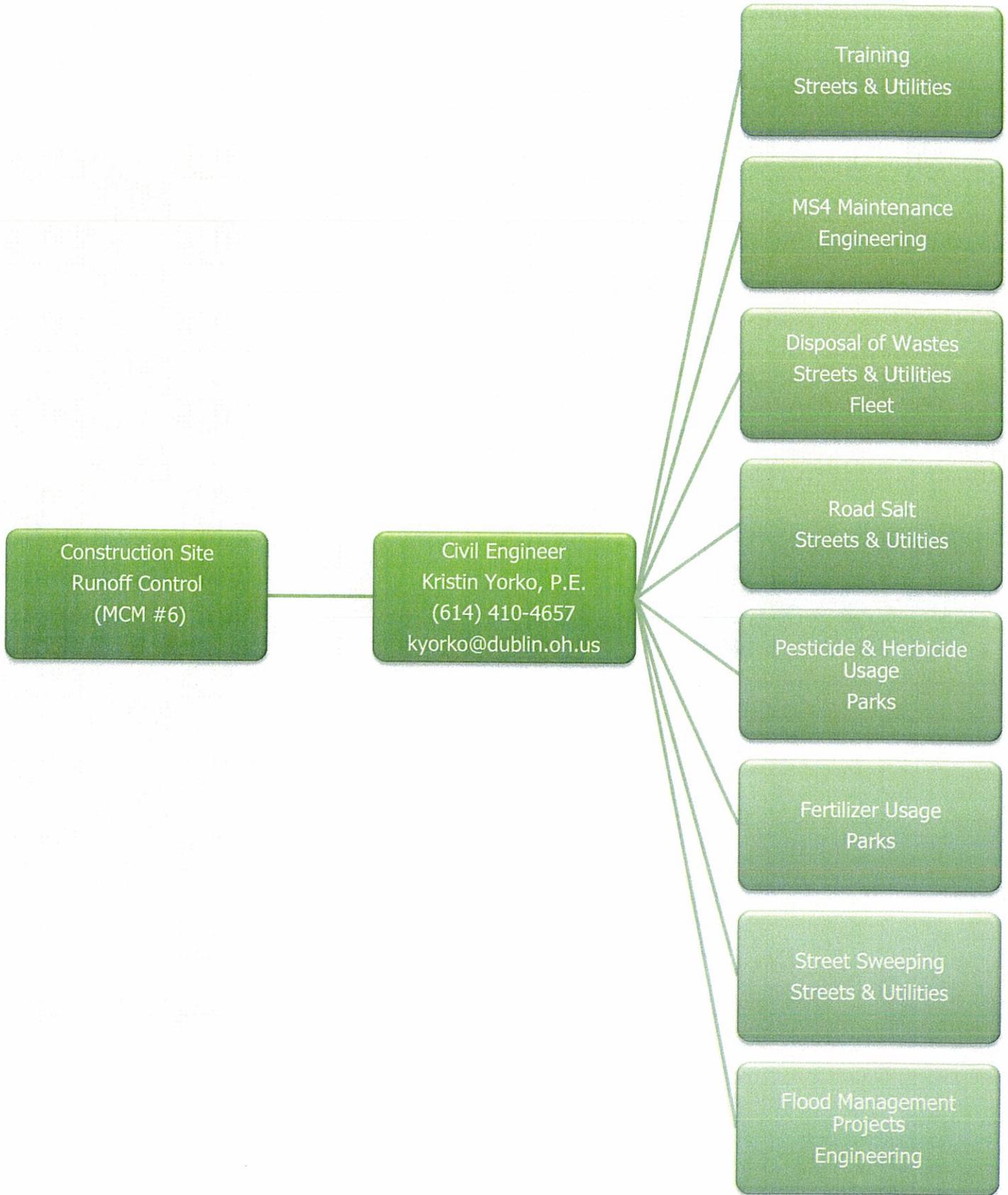
Post Construction Requirements
Engineering

Site Plan Review Procedures
Engineering

Site Inspection Procedures
Engineering

Enforcement Procedures
Engineering

Long-term O&M
Plans/Agreements
Engineering



Construction Site
Runoff Control
(MCM #6)

Civil Engineer
Kristin Yorko, P.E.
(614) 410-4657
kyorko@dublin.oh.us

Training
Streets & Utilities

MS4 Maintenance
Engineering

Disposal of Wastes
Streets & Utilities
Fleet

Road Salt
Streets & Utilities

Pesticide & Herbicide
Usage
Parks

Fertilizer Usage
Parks

Street Sweeping
Streets & Utilities

Flood Management
Projects
Engineering



Franklin Soil and Water Conservation District

Creating Conservation Solutions for Over 60 Years

2013 Storm Water Quality and Conservation Working Agreement with Dublin

This working agreement is entered into on January 1, 2013 and becomes effective on the date of the last signature. The grant agreement expires on December 31, 2013. The agreement is subject to the limitations of authorities, resources and policies of the Franklin Soil and Water Conservation District (Franklin Soil and Water) and the City of Dublin (the City).

The purpose of this agreement is to provide environmental education and public participation on topics related to storm water pollution including water quality, soils and soil erosion in relation to Ohio State Science Standards, and to provide assistance to the City on illicit discharge detection and elimination.

Franklin Soil and Water will provide the following services for the City of Dublin:

Provide support for 1 community event and educational display by staffing, providing literature, exhibits and other relevant materials and keeping informational booths stocked with such materials. For 2013, the planned event is the 'Growing Green Expo'. It will be held on Saturday, March 23 from 9-12. Planning meetings will be set up in early 2013.

Coordinate with schools, City of Dublin, and Dublin Recreation and Parks on providing school programming and community outreach correlated with current state curricula standards and NPDES Phase II requirements.

Provide targeted programming to at least 400 students. This will include in classroom programming and coordinating loan kits with the schools throughout the 2013 school year. This will be done in coordination with Mime Migliore based on available programming and curriculum standards. Inform City of Dublin Staff of available resources they can use to enhance current efforts and programming.

Develop and lead (2) good housekeeping workshops for City of Dublin staff. These workshops are to be developed with input from the City of Dublin to help insure the efficacy of the topics covered during the workshops.

Provide NPDES Phase II updates and draft text that can be used for newsletter articles and brochures.

Provide assistance to the City for their Illicit Discharge Detection and Elimination program. The target areas that Franklin Soil and Water will focus on in the 2013 field season will include 30 miles in the North Fork Indian Run watershed (see attached map for target areas). The results will be analyzed by the Franklin County Public Health Department. Enforcement and elimination will be the responsibility of the Franklin County Public Health Department for individual Home Sewage Treatment Systems. This information will be provided to the City in an ESRI format.

The City of Dublin will provide the following:

The City shall participate in the SWCD's annual planning process.

The City shall compensate FSWCD in the form of a working agreement in an amount not to exceed \$12,700.00. To assist with existing budgets, \$2,700 will be billed to the City of Dublin by Nov. 11, 2012. The remaining \$10,000 will be paid by Dublin in the amounts of 50% up front and 50% upon completion of the items defined in this working agreement.

It is Mutually Agreed:

That the working relationship will be defined to include lines of communications with appropriate departments.

The Soil and Water reserves the right to expend funds as needed to meet grant agreement and overhead costs and will not enter into any agreement that does not meet our current mission and goals

That the City of Dublin and Franklin Soil and Water Conservation District will meet when necessary to review and coordinate activities and programs with the aim of developing a multi-discipline approach to resource management.

That all parties will review quality of service and address concerns as they arise and at least every six months.

That credit will be given jointly to Franklin Soil and Water Conservation District and the City of Dublin in natural resource/ NPDES Phase II related publications prior to publication where applicable.

That this working agreement may be amended at any time by mutual written agreement of the parties. In addition, either party may terminate this agreement by providing the other party written notice at least thirty (30) days prior to the intended termination date.

Franklin Soil and Water will recognize City of Dublin as a partner and supporter on programming and communication materials.

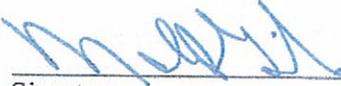
SIGNATURES

The below signatures certify consent on the above agreement.

FRANKLIN SOIL AND WATER CONSERVATION DISTRICT


Signature _____ Assistant Director _____ Title _____ 1/16/13 _____ Date

CITY OF DUBLIN


Signature _____ City Manager _____ Title _____ 1/11/12 _____ Date

*OK to Approve.
R.H.
1.9.2013*

CITY OF DUBLIN 2013 WORKING AGREEMENT CALCULATIONS

ATTACHMENT A

GRANT COST ESTIMATES:

The below costs are for grant calculations only. This is not a fee for service arrangement. Please see working agreement for explanation.

ACTIVITY		Cost Estimate
Community Event: Growing Green Expo. March 23 from 9-12	manned booth for 1 community event	\$400.00
Student Programming	400 students	\$1,400.00
Good Housekeeping workshops for maintenance staff (min. of 2 workshops)	Workshops lead by Martha Gilson and John Bailey	\$900.00
NPDES Phase II updates and draft text for articles in newsletters or as requested	General support	\$0.00
Fact sheets and information for public	Through website	\$0.00
Illicit Discharge and Detection (dry weather screening) North Fork Indian Run Watershed (based on 30 miles)	30 miles	\$10,000.00
TOTAL		\$12,700.00



MAY 24 13

CITY MANAGER'S
OFFICE**Franklin County Public Health**

280 East Broad Street · Columbus, Ohio · 43215-4562

May 22, 2013

Marsha Grigsby, City Manager
The City of Dublin
5200 Emerald Parkway
Dublin, OH 43017

Dear Ms. Grigsby:

Enclosed is a fully executed contract between the City of Dublin and Franklin County Public Health for public health services in 2013.

If you have any questions please don't hesitate to contact me at (614) 525-3670 or email me at drwolf@franklincountyohio.gov. We look forward to continuing to work with you.

Sincerely,

A handwritten signature in cursive script that reads "Deidra R. Wolf".

Deidra R. Wolf
Executive Assistant

enclosure

**FRANKLIN COUNTY PUBLIC HEALTH
2013 HEALTH SERVICES CONTRACT**

Between:

The District Advisory Council
of the Franklin County General Health District
280 East Broad Street
Columbus, Oh 43215

and

The City of Dublin, Ohio
5200 Emerald Parkway
Dublin, OH 43017

Contact us at: (614) 525-3160 / Fax (614) 525-6672
www.myfcph.org

CONTRACT

BETWEEN THE CITY OF DUBLIN, OHIO AND THE DISTRICT ADVISORY COUNCIL OF THE FRANKLIN COUNTY GENERAL HEALTH DISTRICT. AND FRANKLIN COUNTY PUBLIC HEALTH

This contract is made and entered into by and between the City of Dublin, Ohio, a municipal corporation constituting a city health district, and the District Advisory Council of the Franklin County General Health District pursuant to Ohio Revised Code section 3709.08, and Franklin County Public Health pursuant to Ohio Revised Code Section 3709.281.

WITNESSETH

SECTION 1. The District Advisory Council of the Franklin County General Health District shall, for the consideration hereinafter stated, furnish to the City of Dublin, Ohio, and inhabitants thereof, all such public health services as are furnished by said Council to all villages and townships and the inhabitants thereof, of Franklin County, Ohio. Said services shall include the minimum standards and optimal achievable standards for boards of health and local health departments pursuant to Ohio Revised Code Section 3701.342.

Also, the Franklin County General Health District shall provide other services, including the enforcement of the following Franklin County Public Health Regulations:

- (703) Plumbing
- (709) Rabies Control Regulation
- (710) Housing Maintenance and Occupancy
- (712) Rat Control
- (715) Dead Animals
- (716) Weeds
- (717) Manure
- (718) Nuisance
- (719) Approval of Building Plans
- (720) Household Sewage Treatment Systems
- (800) Comprehensive Solid Waste Regulations
- (803) Waste Haulers

The City of Dublin, Ohio, shall adopt, according to law, the current version of the above-described regulations of Franklin County Public Health.

Such services shall be rendered, if appropriate and necessary, when requested by the citizens of Dublin, Ohio, officials of city government, school authorities or medical personnel practicing in or around the City of Dublin, Ohio or when required by state statute.

The City Attorney of Dublin, Ohio shall be responsible for any litigation involving enforcement of Health Regulations within the corporate limits of said political subdivision.

This Agreement and any claims arising in any way out of this Agreement shall be governed by the laws of the State of Ohio. Any litigation arising out of or relating in any way to this Agreement or the performance hereunder shall be brought only in an Ohio court of competent jurisdiction in Franklin County, Ohio, and the City of Dublin hereby irrevocably consents to such jurisdiction.

SECTION 2. Said public health services shall be furnished beginning January 1, 2013 and ending December 31, 2013 provided, however, that either party to this agreement shall have the right to cancel the same upon four (4) months written notice and the parties hereto may, by mutual written agreement, modify the terms of this agreement.

SECTION 3. The Health Department shall render a report quarterly to the Mayor/City Manager on all services directly rendered to the citizens of Dublin. Such a report shall describe the type of service, where and for whom the service was rendered, and the number of cases, visits or other appropriate work units.

SECTION 4. The City of Dublin, Ohio shall pay to the Franklin County General Health District for said public health services furnished to the City of Dublin, Ohio and the inhabitants thereof, such sum or sums of money based on a per capita rate as would be charged against municipal corporations composing the Franklin County General Health District at a per capita rate of \$5.93.

SECTION 5. Said sum or sums of money shall be paid by the said City of Dublin, Ohio to said Franklin County General Health District upon receipt of semi-annual invoices by the Franklin County Board of Health on the first day of January, and June, 2013. The sum for 2013 shall not exceed \$249,285.34, notwithstanding any fee established pursuant to the sections set forth below.

SECTION 6. In any instance where the Franklin County General Health District expends funds to abate a nuisance pursuant to Section 1, above, within the City of Dublin, Ohio, the Franklin County General Health District may invoice the City of Dublin, Ohio for the costs of such nuisance abatement. Further, the City of Dublin, Ohio, shall pay, in addition to those sums set forth in Section 5, above, to the Franklin County General Health District the cost to abate the nuisance.

The Franklin County General Health District agrees to certify such nuisance abatement costs to the Franklin County Auditor to be recorded as a lien upon the property and shall reimburse all funds recovered under such a lien to the City of Dublin, Ohio.

PLUMBING INSPECTION SERVICES:

SECTION 7. Franklin County Public Health shall, for the consideration hereinafter stated, furnish to the City of Dublin, Ohio, all plumbing inspections as are furnished to all inhabitants within the general health district of Franklin County. Inspectors are to be state certified by the Ohio Department of Commerce.

SECTION 8. The City of Dublin, Ohio, through its Building Department, shall issue permits and collect fees for such plumbing inspections. The fee to be charged shall be the most current fee charged by the Franklin County General Health District. The City of Dublin, Ohio, shall forward sixty (60) percent of all plumbing inspection fees collected by them to the Franklin County General Health District after said Health District has submitted monthly statements of the amount due. The City of Dublin, Ohio shall pay said amount, within thirty (30) days after receipt of said statement.

SECTION 9. This contract is approved by a majority of the members of the legislative authority of the City of Dublin, pursuant to the provisions of Ordinance 62-12 dated Oct. 22, 2012.

SECTION 10. The City of Dublin, Ohio has determined that the District Advisory Council of the Franklin County General Health District is organized and equipped to adequately provide the service that is the subject of this contract. Pursuant to Ohio Revised Code section 3709.08, the Franklin County General Health District shall have all the powers and perform all the duties required of a board of health of the city health district within the jurisdiction of the City of Dublin.

IN WITNESS WHEREOF, the parties to this agreement have hereunto set their hands and seals and have executed this agreement the day and year written below.

DISTRICT ADVISORY COUNCIL OF THE
FRANKLIN COUNTY GENERAL HEALTH DISTRICT

Chen B. Bell 3/17/13
Chairperson Date

FRANKLIN COUNTY PUBLIC HEALTH

Susan A. Tilgner 3/18/13
Susan A. Tilgner, MS, RD, LD, RS Date
Health Commissioner

THE CITY OF DUBLIN, OHIO

Marsha Grigsby 10/23/12
Marsha Grigsby, City Manger Date

APPROVED AS TO FORM:

Ron O'Brien
Prosecuting Attorney
Franklin County, Ohio

Heidi G. Wilcox 23 April 13
Assistant Prosecuting Attorney Date
Attorney for the District Advisory
Council of the Franklin County General Health District

John J. St. John 10.24 -12
City Attorney Date
City of Dublin, Ohio

APPROVED BY THE OHIO DEPARTMENT OF HEALTH

Theresa E. Zyglidopoulos 5.17.13
Director, Ohio Department of Health Date

FINANCIAL CERTIFICATE

It is hereby certified that the amount required to meet the contract agreement, obligation, payment of expenditure for the above has been lawfully appropriated, authorized or directed for such purpose and is in the treasury or in the process of collection to the credit of the proper fund and is free from any obligation or certificated now outstanding.

Angela M. Miller
FISCAL OFFICER
City of Dublin, Ohio

9/26/12
DATE

**PROFESSIONAL SERVICES AGREEMENT****Waterway Inspections**

This Services Agreement ("Agreement") is made and entered into and effective on this 3rd day of April, 2013 ("Effective Date") by and between the City of Dublin, Ohio ("Dublin"), an Ohio Municipal Corporation, with offices located at 5200 Emerald Parkway, Dublin, Ohio 43017 and Franklin Soil and Water Conservation District. ("Service Provider"), with an office and principal place of business located at 1328 Dublin Road, Suite 101, Columbus Ohio 43215.

Recitals

WHEREAS, Dublin desires to engage Service Provider to perform the services as more fully described in the attached Exhibit A (the "Services"); and

WHEREAS, Services Provider desires to perform the Services and desires to be so engaged.

NOW, THEREFORE, in consideration of the foregoing and of the covenants and agreements herein contained, the parties, intending to be legally bound, agree as follows:

Provisions**I. Performance of the Services.** Provider shall:

- A. Perform the Services as set forth in Exhibit A.
- B. Give prompt notice to Dublin should the Service Provider observe or otherwise become aware of any fault or deficit in the project or any nonconformance with the Agreement.
- C. Remit to Dublin after the termination of this Agreement, all files and documents pertaining to the project that have been obtained or produced including, but not limited to, permits, licenses, applications, codes, drawings, site plans, photographs and similar materials. Provider shall be entitled to retain copies for Provider's files.

II. Obligations of Dublin. Dublin shall:

- A. Assist the Service Provider by placing at its disposal all available information pertinent to the Services for the project.
- B. Use its best efforts to secure release of other data applicable to the project held by others.

■ **Engineering**
5800 Shier Rings Road
Dublin, Ohio 43016

phone 614.410.4600
fax 614.410.4699

www.dublinohiousa.gov

- C. Make all necessary provisions to enter upon public and private property as required to perform the Services.
- D. Give prompt notice to the Service Provider should Dublin observe or otherwise become aware of any fault or deficit in the project or any nonconformance with the Agreement.

III. Term and Termination. The Agreement shall commence on the 15th day of April, 2013 and shall terminate on the 30th day of September, 2013, or as otherwise mutually agreed to by Dublin and the Service Provider. Dublin may terminate this Agreement at any time by giving Service Provider thirty (30) days advance written notice. In the event this Agreement is terminated by Dublin prior to its natural expiration, Service Provider shall be paid the amounts for work actually performed in accordance with this Agreement to the date of this early termination.

IV. Payment.

- A. Service Provider shall be compensated in an amount not to exceed Thirty Nine Thousand, Six Hundred dollars (\$39,600.00).
- B. The Service Provider shall invoice Dublin monthly for services rendered through the previous month and Dublin agrees to pay within thirty (30) days of receipt of a valid invoice. A valid invoice shall consist of a fully itemized, daily account of which personnel worked on the project with a description of work performed, as well as an itemization of all reimbursable expenses which must be documented with copies of receipts whenever possible. All invoices must include the contract number and the purchase order number of this contract which is located in the upper right-hand corner of the first page of this document. Invoices must also include information describing the percentage of each phase of the work which has been completed, and a summary of billings and payments made to date.

V. Relationship of the Parties. The parties acknowledge and agree that Service Provider is an independent contractor and is not an agent or employee of Dublin. Nothing in this Agreement shall be construed to create a relationship between Service Provider and Dublin of a partnership, association, or joint venture.

VI. Indemnification.

- A. Professional Liability. Relative to any and all claims, losses, damages, liability and cost, the Service Provider agrees to indemnify and save Dublin, its officers, officials, and employees harmless from and against any and all suits, actions or claims for property losses, damages or personal injury arising from negligent acts, error or omission by the Service Provider or its employees.

- B. Non-Professional Liability (General Liability). To the fullest extent permitted by law, the Service Provider shall indemnify, defend and hold harmless Dublin, its officers, officials, employees or any combination thereof, from and against claims, damages, losses and expenses, including but not limited to attorneys' fees, arising out of the acts or omissions of the Service Provider, provided that such claim, damage, loss or expenses is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of property (other than the work itself) including loss of use resulting therefrom, but only to the extent caused the negligent acts or omissions of the Service Provider, any subconsultant(s) of the Service Provider, its agents, or anyone directly or indirectly employed by them or anyone for whose acts they may be liable, regardless of whether or not such claim damage, loss or expense is caused in part by a party indemnified hereunder. Such obligations shall not be construed to negate, abridge, or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this paragraph.

VII. Insurance.

- A. The Service Provider shall secure and maintain, at his/her/its own expense, errors and omissions insurance in an amount not less than One Million Dollars (\$1,000,000.00) per claim/annual aggregate to protect himself from any claim arising out of the performance of professional services and caused by negligent acts, omissions or negligent acts for which the Service Provider may be legally negligent. The Service Provider shall maintain said coverage for the entire contract period and for a minimum of one year after completion of the work under the contract.
- B. In addition to errors and omissions insurance, the Service Provider shall also secure and maintain, at his/her own expense, insurance for protection from claims under Worker's Compensation acts, claims for damages because of bodily injury including personal injury, sickness or disease or death of any and all employees or of any person other than such employees, and from claims or damages because of injury to or destruction of property including loss of use resulting therefrom, and any other insurance prescribed by laws, rules, regulations, ordinances, codes or orders.
- C. The Service Provider shall secure and maintain, at his/her own expense, General Liability insurance in an amount not less than One Million Dollars (\$1,000,000.00) per occurrence.
- D. Deleted for this contract.
- E. The above referenced insurance shall be maintained in full force and effect during the life of this Contract and for one year beyond, where specified. Certificates showing that the Service Provider is carrying the above referenced insurance in at least the above specified minimum amounts shall be furnished to, and approved by, Dublin prior to the start of work on the project and before Dublin is obligated to make any payments to the Service Provider for the work performed under the provision of this contract. All such Certificates, with the exception of those for Worker's Compensation and Errors & Omissions coverage, shall clearly reflect that the City of Dublin is an "Additional Insured".

VIII. Right to Audit

- A. Service Provider guarantees that the individuals employed by the Service Provider in any capacity, including but not limited to, employees, subcontractors and independent contractors, are authorized to work in the United States. The Service Provider represents that it has completed the I-9 verification process for all individuals the Service Provider has performing services for Dublin. Dublin maintains the right to audit the Form I-9s for all individuals the Service Provider has performing services for Dublin every six (6) months. Dublin will provide the Service Provider with five (5) days advanced written notice of its intent to perform a Form I-9 audit. In response to Dublin's audit request, the Service Provider shall provide copies of all Form I-9s and any supporting documentation for all individuals who the Service Provider had performing services for Dublin at any time subsequent to the date upon which Dublin gave notice of the preceding Form I-9 audit.
- B. The Service Provider agrees to indemnify Dublin in accordance with Section VI of the Agreement for any issue arising out of the Service Provider's hiring or retention of any individual who is not authorized to work in the United States.

IX. Taxes.

- A. Service Provider has the following identification number for income tax purposes:
31-0847446.
- B. Service Provider is subject to and responsible for all applicable federal, state, and local taxes.
- C. Dublin represents that it is a tax-exempt entity and evidence of this tax-exempt status shall be provided to Service Provider upon written request. Service Provider hereby further agrees to withhold all municipal income taxes due or payable under the provisions of Chapter 35 of the Codified Ordinances of Dublin, Ohio, for wages, salaries and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such municipal income taxes due under such chapter for Services performed under this Agreement.

X. Assignment. Neither party may assign this Agreement without obtaining express, written consent from the other party prior to assignment.

XI. Entire Agreement / Amendment. This Agreement constitutes the entire understanding of the parties hereto with respect to the subject matter hereof and supersedes all prior negotiations, discussions, undertakings and agreements between the parties. This Agreement may be amended or modified only by a writing executed by the duly authorized officers of the parties hereto. It is understood and agreed that this Agreement may not be changed, modified, or altered except by an instrument, in writing, signed by both parties in accordance with the laws of the State of Ohio.

XII. Discrimination.

- A. No discrimination for reason of race, religion, sex, age or country of national origin shall be permitted or authorized by Dublin and/or Service Provider in connection with the Services.
- B. Nothing in this Agreement shall require the commission of any act contrary to any law or any rules or regulations of any union, guild, or similar body having jurisdiction over the Services of Service Provider.

XIII. Governing Law/Venue . Any controversy or claim, whether based upon contract, statute, tort, fraud, misrepresentation or other legal theory, related directly or indirectly to this Agreement, whether between the parties, or of any of the parties' employees, agents or affiliated businesses, will be resolved under the laws of the State of Ohio, in any court of competent jurisdiction in Franklin County, Ohio.

XIV. Severability. If any provision of this Agreement is held invalid or unenforceable, such provision shall be deemed deleted from this Agreement and shall be replaced by a valid, mutually agreeable and enforceable provision which so far as possible achieves the same objectives as the severed provision was intended to achieve, and the remaining provisions of this Agreement shall continue in full force and effect.

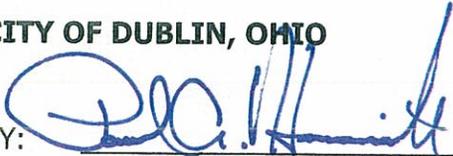
XV. Paragraph Headings. Paragraph headings are inserted in this Agreement for convenience only and are not to be used in interpreting this Agreement.

[signatures appear on following page]

IN WITNESS WHEREOF, the parties have executed this Agreement as of the _____ day of _____, 2013.

CITY OF DUBLIN, OHIO

BY: _____



Paul A. Hammersmith, P.E.
Director of Engineering / City Engineer

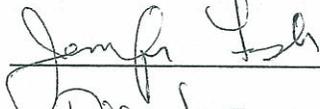
BY: _____



Marsha I. Grigsby, City Manager

FRANKLIN SOIL AND WATER CONSERVATION DISTRICT

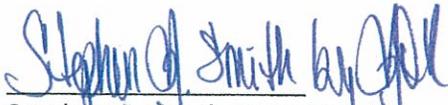
BY: _____



ITS: _____

Director

Approved as to Form:


Stephen J. Smith, Law Director

CERTIFICATION OF FUNDS

I hereby certify that the funds required to meet the City's obligation, payment, or expenditure under this Agreement have been lawfully appropriated or authorized for such purpose and are free from any obligation now outstanding.


Angel L. Mumma

Deputy City Manager / Director of Finance

4/15/13
Date

EXHIBIT A

Scope of Services



City of Dublin

Proposal to Provide Waterway Inspections

March 2013



Contents

	Page
1.0 Introduction	1
2.0 Project Understanding.....	1
3.0 Technical Experience	2
4.0 Proposed Staffing.....	3
5.0 Location of the Organization	3
6.0 Project Approach	4
6.1 Planning Phase	
6.2 Waterway Inspections	
6.3 Deliverables and Evaluation	
6.4 Updating Stormwater Lines and Future Steps	
7.0 Project Approach Summary and Costs	6

1.0 Introduction

This proposal is being respectfully submitted in response to the City of Dublin's interest in Waterway Inspections. The following provides an overview of our organization, elaborates on our understanding of the scope of services required for this project, and outlines a proposal for undertaking the project.

Franklin Soil and Water Conservation District

Franklin Soil and Water Conservation District (FSWCD) is the natural resource agency in Franklin County with the sole purpose of promoting conservation and responsible land use for better water quality and natural resource management. This is accomplished through establishing partnerships, providing technical guidance, and engaging communities. All of our programs are focused on protecting or improving water quality and natural resources for the benefit of central Ohio residents.

With a staff of 16 experienced and highly qualified individuals, we have been developing and implementing conservation solutions for over 60 years in Franklin County and are excited to continue this challenging effort. Stormwater management is central to our work, and we continually strive to develop new ideas, tools, and approaches to increase the visibility and implementation of stormwater management approaches and practices. This project aligns very well with our organization's mission and we believe it is a responsible and worthwhile endeavor worth supporting.

FSWCD has inter-governmental working agreements with a majority of the municipalities in Franklin County, Franklin County, all 17 townships, and the Mid Ohio Regional Planning Commission. Included in these partnerships is the City of Dublin, which has been a supporter and beneficiary of our stormwater work throughout the past five years. During this time, FSWCD has performed drainage mapping for the City of Dublin (combination of GPS and GIS work to locate and map stormwater outfalls), performed dry weather screening in compliance with NPDES permits, is currently mapping household sewage treatment systems (HSTS) in a joint project with Franklin County Public Health, and has conducting various outreach and education programs related to stormwater for residents of Dublin and students in City of Dublin schools.

2.0 Project Understanding

By means of a review of correspondence and through discussions with City staff, the following is FSWCD's understanding of the services being requested by the City of Dublin:

The purpose of this project is to ensure that stormwater and flood water can flow freely (uninhibited) away from stormwater structures throughout the City limits and other areas defined by City staff.

To ensure this free flow of stormwater, waterway inspections are to be conducted along the lengths of all open streams within the City limits and other areas defined by City staff. The current understanding of extent is throughout the 25 square miles of tributary within City limits which encompasses 24 major streams. By necessity, it is understood that these waterway inspections will require the walking of the entire lengths of the streams (to the extent that safe conditions exist) and that the documentation of concerns be addressed through photos, GPS location, and completion of a pre-agreed-to form for describing observed conditions.

The City is requesting that the waterway inspections be conducted in a manner that will allow the data collected to be incorporated into the City's GIS as well as being compatible with the City's current Cityworks asset management and work-order system.

In addition to the data collected during the waterway inspections, the current collection of inspection forms held by the City is to be incorporated into the workflow. This will allow a single database of inspections to be viewed with the City's GIS, along with other relevant data layers, and integrated into the Cityworks system.

3.0 Technical Expertise

Core to FSWCD's current operations is the use of GIS and associated mapping, and core to this effort is the district's Geomatics program. FSWCD has made extensive use of the GIS supported by eleven years of field data acquired by district staff using GPS technology. This combination of customized, accurate field data, supplemented by substantial amounts of base data throughout Franklin County, is central for the day-to-day operations of the organization and has improved the services and products that the district is able to provide to the central Ohio community. The ability to use GIS has established ongoing partnerships, has allowed us to extend our services, and further our organization's goals by producing more comprehensive, accurate products.

Work directly related to the waterway inspections include the following efforts developed and maintained by FSWCD: Stream Resource Mapping, Stream Resource Geodatabase and Dry Weather Screening.

- **Stream Resource Mapping**
Initiated in 2001, FSWCD, in partnership with the City of Columbus and Franklin County Commissioners, started an effort to create a high-resolution dataset of drainage throughout Franklin County. This effort was predominantly completed in 2007 and resulted in over 1,600 miles of streams being walked by staff members and over 40,000 features identified, documented with pictures, and managed with a GIS.
- **Stream Resource GeoDatabase**
Starting before the Stream Resource Mapping effort and continuing to this day, a comprehensive database of surface water drainage and subsurface drainage structures is continually being updated and added to for the extents of Franklin County. Over the past 15 years, FSWCD has mapped almost all the surface drainage in the county, including previously unmapped headwater streams and outfalls into streams. This information has been reconciled with existing storm sewer data in most communities, including the City of Dublin. Features include an array of information including historical data and directionality of flow. This dataset consists of over 7,800 miles of drainage and over 290,000 features.
- **Dry Weather Screening**
In keeping pace with NPDES permit requirements, FSWCD has undertaken the Dry Weather Screening of MS4 components and sources of flow to MS4s for Franklin County and various municipalities within Franklin County. This process entails using GPS to map the location of features and an on-site screening of the features for possible violations of the various NPDES permits held by the municipalities. This effort uses the data developed during the Stream Resource Mapping and Stream Resource GeoDatabase efforts as a guide to project planning and field work. Over 40,000 features have been dry weather screened and mapped so far during this effort.

4.0 Proposed Staffing

FSWCD is fully prepared to begin this project in April, 2013 upon execution of applicable contracts. FSWCD has a seasoned staff with many project staff members employed at FSWCD for over five years. FSWCD is a dynamic and flexible organization capable of engaging and managing additional staff if workload and available funding permit. For this waterway inspection project, oversight and coordination of the project will be conducted by Josh Garver. Day-to-day planning and field work coordination will be conducted by John Bailey. Field work will be conducted by John Bailey and a combination of summer interns and/or existing watershed coordinator staff members. Coordination of updating GIS layers for stormwater lines and surface drainage to be conducted by Jeff Pierce. Additional GIS support will be provided by Aaron Hebert.

Josh Garver, Assistant Director

Josh Garver is assistant director at FSWCD. Josh has been with FSWCD for six years where he has also been employed as the GIS natural resources specialist and member of the geomatics team. He provides technology guidance and support to staff, maintains GIS data layers, and is involved in a variety of projects providing GIS expertise and support. Josh also coordinates GIS-based projects with various Franklin County agencies and local municipalities, which focus on improving water quality and meeting requirements of the NPDES permit held by Franklin County and its townships. Josh has a Master's Certificate in GIS from North Carolina State University, a minor in City and Regional Planning from The Ohio State University and a BS in Landscape Architecture from The Ohio State University. Prior to joining Franklin Soil and Water, Josh worked several years in landscape architecture and planning firms as a project landscape architect, designing and managing a variety of urban, park and GIS-centric projects.

John Bailey, Water Quality Field Coordinator

John Bailey is water quality field coordinator and a member of the geomatics team at FSWCD. John works with local municipalities on the Illicit Discharge Detection and Elimination portion of the NPDES Phase II permit and is a Level 3 Qualified Data Collector in Chemical Water Quality through the Ohio EPA. John received a BS in Natural Resources Management with a specialization in Fisheries Management from The Ohio State University and an AS in Fish and Wildlife Management from Hocking Technical College. Prior to working with FSWCD, John worked in the environmental consulting field, landscape industry, and with the U.S. Fish and Wildlife Service.

Jeff Pierce, GIS Natural Resources Coordinator

Jeff Pierce is GIS natural resources coordinator and a member of the geomatics team at Franklin Soil and Water Conservation District. Jeff graduated from Wilmington College (OH) with a BA in English and Communications. He also holds a MS in Educational Leadership and a Master of Environmental Sciences in Applied Ecology and Resource Analysis from Miami University. Jeff has served as a past member of the NRCS statewide GIS committee, as the Chair of the Ohio Geographically Referenced Information Program's statewide hydrology committee, and as a voting member of the Heart of Ohio RC&D Council. He has been with Franklin Soil and Water since 1995 and founded the first soil and water conservation district GIS program in Ohio.

Aaron Hebert, GIS Specialist

Aaron Hebert is GIS specialist and a member of the geomatics team at FSWCD, where his responsibilities include coordination with GIS staff in managing data related to current programs and projects. Aaron graduated from Western State College of Colorado, with a BA in history with a geography minor. He has also completed a GIS-certificate program at Columbus State Community College. Prior to joining FSWCD, Aaron interned with the Ohio Department of Natural Resources, editing land parcel data in eastern Ohio.

5.0 Primary Office Location

Franklin Soil and Water Conservation District

1328 Dublin Road, Suite 101

Columbus, Ohio 43215

(614) 486-9613

www.franklinswcd.org

Jennifer Fish, Director

Josh Garver, GISP, Assistant Director

6.0 Project Approach

While the bulk of the time and effort related to the waterway inspections will be spent in the field walking the streams, assessing conditions and collecting data, it is clear that ease of access and use of this data by City of Dublin employees is critical. To this end, FSWCD believes that initiating the project with a planning phase will greatly benefit the overall success of the project. The proposed approach for conducting waterway inspections is the following:

Planning Phase

Waterway Inspections

Deliverables and Project Evaluation

Updating Stormwater Lines and Future Steps

6.1 Planning Phase

During the planning phase, FSWCD will address the following topics:

Inspection Forms

Review existing forms previously used for waterway inspections

Explore/discuss additions or modifications to the existing forms

Establish definitions and guidelines to quantify observations being recorded on the inspection forms

Discussion on unique identifiers and other geographic attributes for features

GIS Data and Data Collection

Work with City GIS staff to determine appropriate means of data collection. Typical workflow is to use Trimble Receivers and data dictionaries to collect locations and record field observations. It may be possible to use another means of collecting data with existing City GIS resources. The details and testing of this process need to be discussed and a course of action determined. The ultimate goal being integration with the existing City GIS and Cityworks installation.

Extents and Features for waterway inspections

Confirm geographic extents of the waterway inspections

Confirm the types and locations of features being inspected

Establish a prioritization and/or order of inspections for the various features

Public Notification

Discuss the need for, content of, and timing of notification of Dublin residents relative to waterway inspections

Historical Data

Due to the Stream Resource Mapping that FSWCD previously completed for the City of Dublin, a historical dataset exists, which shows the locations of dump sites, log jams and related observations along most of the streams throughout Dublin. This data can be referenced possibly incorporated into the waterway inspections database to provide a better temporal understanding of Dublin streams and may aid in the prioritization of generating work orders from these inspections.

6.2 Waterway Inspections

After an initial review of existing GIS stream layers, it appears there are approximately 90 miles of waterways that need to be walked and inspected in the City of Dublin area. The approach will be to conduct the waterway inspections in accordance with the order and prioritization established in the planning phase of the project. The inspections will be conducted by teams of two FSWCD staff members. Use of the forms (or other agreed-to methodology) for recording observations, as well as photos, survey poles for scale, and measurements of features when necessary will be included in the inspections. The notable exception to this process is the Scioto River. Unless decided to the contrary, FSWCD does not intend to walk or boat the length of the Scioto River adjacent to the City.

6.3 Deliverables and Evaluation

At the completion of the 2013 season of conducting waterway inspections, all collected data will be delivered to the City in a GIS format agreed to in the Planning Phase of the project. Upon request and in coordination with City staff an overview exhibit will be produced for the waterway inspection project showing areas of completion, areas to be completed, areas of concern/interest, and additional supporting information relevant to the continuation and support of the project.

Following the exchange of the deliverables, FSWCD and City staff will meet and review the process and products produced through the waterway inspections. The intent of this review is to address areas for improvement and plan for future efforts. It is expected that a prioritization of remaining waterway inspections will be developed and some additional sites for revisiting or evaluating identified.

6.4 Updating Stormwater Lines and Future Steps

In addition to additional waterway inspections, a coordinated effort by FSWCD and City staff to update surface drainage and subsurface drainage throughout the City and its service areas will be discussed and planned. This update will not only supplement and enhance the waterway inspection process, but will also serve to update the stormwater drainage GIS layers that the City currently maintains.

This effort will be an update of the product created by FSWCD in 2008 in coordination with the City. This update will address several issues currently known in the dataset, incorporated new data into the dataset and resolve some questions that Dublin staff have related to the existing dataset.

7.0 Project Approach Summary and Grant Amount

Franklin SWCD is a government service agency that is funded by local government grants and state matching funds for the purpose of meeting local soil and water conservation needs. For the services described herein, Dublin shall compensate FSWCD in the form of a grant in the amount of \$39,600. Franklin SWCD reserves the rights to expend these funds as needed to meet grant agreements, overhead, and general program costs. While amounts shown are calculated off of anticipated assistance needed, grant compensation is not intended to be a fee for service arrangement. Additional services may be provided as funding and resources allow.

Summary of Project Phases and Time Frames for 2013		
Phase	Time Frame	Anticipated Cost
Planning Phase Inspection Forms GIS Data and Data Collection Extents and Features for Waterway Inspections Public Notification Historical Data	Initiate in April, 2013. This phase will necessitate approximately three meetings with Dublin staff likely split between Engineering and GIS personnel. In addition, preparation of GIS base data and preparation of collection techniques to be completed.	\$4,400
Waterway Inspections	Initiate in April, 2013 after completion of Planning Phase. Waterway inspections will be conducted by teams of two FSWCD staff members as weather and schedules permit through September 2013. Planning for 75 miles of waterway inspection.	\$22,000.00
Deliverables and Evaluation	Includes the processing and preparation of data collected during the waterway inspections, incorporating existing inspections, creation of summary exhibits, presentation of product, and review with Dublin staff.	\$4,400
Updating Stormwater Lines and Future Steps	It is expected that this phase will necessitate approximately three meetings with City GIS staff as well as a dedicated point of contact at the City.	\$8,800
Grant Total		\$39,600

CONSTRUCTION NOI STORM WATER GENERAL PERMIT LIST

County	Permit No	Applicant Name	Applicant Address	Facility Name	Facility Address	Issue Dt
Delaware	4GC04261*AG	CITY OF DUBLIN	5800 SHIER RINGS RD DUBLIN, OH 43016	BEAR RUN	S OF DUBLINSHIRE RD/N OF BARSTON DRAW OF EARLINGTO DUBLIN, OH 43016	41526
Franklin	4GC04371*AG	CITY OF DUBLIN	5800 SHIER-RINGS RD DUBLIN, OH 43016	EMERALD PARKWAY PHASE 8	RIVERSIDE DR TO BILLINGSLEY CRK DUBLIN, OH 43017	41614
Franklin	4GC04345*AG	EDWARDS GOLF COMMUNITIES LLC	495 S HIGH ST #150 COLUMBUS, OH 43215	VILLAS AT BALLANTRAE	DUBLIN, OH 43017	41586
Franklin	4GC04254*AG	DANBERT INC	8077 MEMORIAL DRIVE PLAIN CITY, OH 43064	COFFMAN PARK EXPANSION PHASE 1	5200 EMERALD PARKWAY DUBLIN, OH 43017	41513
Franklin	4GC04249*AG	MI HOMES OF CENTRAL OHIO LLC	3 EASTON OVAL STE 340 COLUMBUS, OH 43219	LINKS AT BALLANTRAE	N OF RINGS RD/S OF BALLANTRAE PLE OF BELTAIN LN/W DUBLIN, OH 43016	41512
Franklin	4GC04245*AG	EDWARDS LAND DEVELOPMENT CO	495 S HIGH ST #150 COLUMBUS, OH 43215	DUBLIN VILLAGE CENTER	SW OF I-270 & SAWMILL RD DUBLIN, OH 43017	41506
Franklin	4GC04236*AG	CITY OF DUBLIN	5800 SHIER RINGS ROAD DUBLIN, OH 43016	SOUTH FORK INDIAN RUN FLOODPLAIN FILL	SOUTH & WEST OF THE EITERMAN/161 INTERSECTION DUBLIN, OH 43016	41499
Franklin	4GC04225*AG	DUBLIN CARE GROUP LLC	12115 NE 99TH ST SUITE 1800 VANCOUVER, WA 98682	DUBLIN ALZHEIMERS SPECIAL CARE CENTER	6355 EMERALD PARKWAY DUBLIN, OH 43017	41487
Franklin	4GC04217*AG	RUSCILLI CONSTRUCTION CO INC	2041 ARLINGATE LN COLUMBUS, OH 43228	NESTLE QAC BUILDING ADDITION	6625 EITERMAN RD DUBLIN, OH 43017	41474
Franklin	4GC04209*AG	OHIO POWER COMPANY	1 RIVERSIDE PLAZA COLUMBUS, OH 43215	AEPOLIO TRANSMISSION CO - AMLIN SUBSTATION	7723 PLAIN CITY- DUBLIN ROAD DUBLIN, OH 43064	41470

Franklin	4GC04188*AG	CITY OF DUBLIN	5800 SHIER-RINGS RD DUBLIN, OH 43016	BRAND ROAD / COFFMAN ROAD ROUNDABOUT	INTERSECTION OF BRAND ROAD & COFFMAN ROAD DUBLIN, OH 43016	41443
Franklin	4GC04165*AG	PARAGON BUILDING GROUP LTD	10104 BREWSTER LN, STE 100 POWELL, OH 43065	COFFMAN RESERVE	COFFMAN RD DUBLIN, OH 43017	41418
Franklin	4GC04152*AG	PARAGON BUILDING GROUP LTD	10104 BREWSTER LN, STE 100 POWELL, OH 43065	WELLINGTON RESERVE	BRAND RD DUBLIN, OH 43017	41404
Franklin	4GC04145*AG	BHDP ARCHITECTURE	274 MARCONI BLVD STE 200 COLUMBUS, OH 43215	OHIO UNIVERSITY HERITAGE COLLEGE OF OSTEOPATHIC ME	7001-7003 POST RD DUBLIN, OH 43016	41395
Franklin	4GC04101*AG	HOMEWOOD CORPORATION	2700 E DUBLIN- GRANVILLE RD, SUITE 300A COLUMBUS, OH 43231	WYANDOTTE WOODS SECTION 8	4091 SUMMIT VIEW RD DUBLIN, OH 43016	41361
Union	4GC04096*AG	CITY OF DUBLIN	5800 SHIER RINGS RD DUBLIN, OH 43016	HYLAND-CROY ROAD/BRAND ROAD ROUNDABOUT	INTERSECTION HYLAND- CROY RD, BRAND RD & MITCHELL-D DUBLIN, OH 43017	41359
Franklin	4GC04088*AG	VRABLE HEALTHCARE INC	3248 W HENDERSON RD COLUMBUS, OH 43220	DUBLIN COURT SKILLED NURSING & REHABILITATION CENT	4500 JOHN SHIELDS PKWY DUBLIN, OH 43017	41347
Franklin	4GC04080*AG	THE DAIMLER GROUP	1533 LAKE SHORE DRIVE COLUMBUS, OH 43204	PERIMETER RETAIL DEVELOPMENT	6566 PERIMETER DRIVE DUBLIN, OH 43016	41339
Franklin	4GC04066*AG	DUBLIN BUILDING SYSTEMS INC	6233 AVERY RD-PO BOX 370 DUBLIN, OH 43017	SERTEK FACILITY	6399 SHIER RINGS RD DUBLIN, OH 43016	41318
Franklin	4GC03874*AG	MIDWESTERN AUTO GROUP	6335 PERIMETER LOOP RD DUBLIN, OH 43017	MIDWESTERN AUTO GROUP, BMW & MINI COOPER STORE	5875 VENTURE DR & 5825 VENTURE DR DUBLIN, OH 43017	41082
Franklin	4GC03868*AG	HCR MANORCARE PROPERTIES	7361 CALHOUN PL STE 300 ROCKVILLE, MD 20855	HEARTLAND OF DUBLIN	4075 W DUBLIN- GRANVILLE RD DUBLIN, OH 43017	41080

Plan Reviews completed on projects not on OEPA list

County	Engineering Project Number	Project Name	Project Address
Franklin	08-009.1-CIP	Dublin Road South Multi-use path Section 2	Dublin Road
Franklin	11-022.0-CIP	Brand Road Shared use path	Brand Road
Franklin	11-021-CIP	Frantz Road Utility Burial	Frantz Road
Franklin	12-004-RES	Celtic Crossing	Off of Hyland-Croy north of Brand
Franklin	07-001-RES	Ballantrae Section 9	East of Cosgray, south of Shier Rings
Franklin	06-004.1-RES	Wyandotte Woods Section 7	Connection of Wyandotte Woods Boulevard
Franklin	13-010-CIP	Amberleigh Park Stormwater Improvements	4175 Vista Ridge Drive
Franklin	12-006-RES	Tartan Ridge Section 5	North of McKittrick Road and East of Hyland-Croy Road
Franklin	12-005-COM	Stansbury at Muirfield	Continuation of Drake Road
Franklin	08-014.1-COM	Red Rooster Quilts	48 Corbins Mill Drive
Franklin	12-004-COM	Tucci's	35 North High Street
Franklin	02-017.3-COM	Dublin Fleet Maintenance	6351 Shier Rings Road
Franklin	80-004.1-COM	OCLC Ups Addition	Kilgour Place
Franklin	98-028-COM	Hilton Lobby Addition	500 Metro Place North

Franklin	95-005.1-COM	Getgo New Pump	6725 Perimeter Loop Road
Franklin	11-013-COM	Time Warner Hub Expansion	5588 Post Road
Franklin	99-005.1-COM	Infiniti of Columbus	3890 Tuller Road
Franklin	03-009-COM	Moe's Southwestern Grill	6505 Dublin Center Drive
Franklin	97-022.1-COM	St. John Lutheran Church	6135 Rings Road
Franklin	no number	Dublin Holder Wright House	4729 Bright Road
Franklin	96-003-COM	Coffman Athletic Complex	6780 Coffman Road
Franklin	no number	Goldfish Swim School	6175 Shamrock Court
Franklin	no number	GNAC	325 Cramer Creek Court
Franklin	04-004.2-COM	Wendy's	4555 W Dublin-Granville Road
Franklin	96-009.1-COM	Scioto Park Restroom	7377 Riverside Drive
Franklin	83-002-COM	Residence Inn	6364 Frantz Road
Franklin	92-014.1-COM	The Learning Center	6320 Perimeter Loop Road
Franklin	07-014-COM	Haid Dental	6455 Post Road
Franklin	13-007-COM	Dublin Assisted Living	6480 Post Road

Kristin Yorko - Re: NPDES Annual Permit

From: Bill Grubaugh
To: Yorko, Kristin
Date: 2/5/2010 7:01 AM
Subject: Re: NPDES Annual Permit
CC: Babyak, John; Burns, Ron; Lozier, Beth

Hi Kristin

To begin answering your questions below.

1. We have not done any training on pollution prevention and housekeeping .
2. Disposal of waste? Are you looking for our chemical waste collection and clean-up information? Annually we collect left over chemicals City staff use and have them disposed of through Safety Kleen or a similar company. If this is reportable, let me know and I'll speak to Beth about the amounts collected as she generally leads this project.
3. Salt. The salt is stored in covered barns each with a 2000 ton capacity. Our annual usage is generally 8-12,000 tons depending on the type of winter we experience. We take enormous measures to reduce the use of salt by:
 - a. We brine bridge decks, hills and dangerous intersections in advance of light precipitation. Brine consists of 23-4% sodium chloride and the rest is water. The brine is dispensed for a truck onto the road through a spray bar, leaving rows of sodium chloride on the road once the water evaporates, providing some minimal protection.
 - b. Our trucks are equipped with onboard ground speed systems that enable the operator to dispense salt at predetermined rates. For example, the city is covered in a blanket of snow, one inch deep. The operators must dispense salt to clear the snow from the road. They will apply about 200 lbs per lane mile to accomplish their goal. It does not matter how fast the truck is driving, when the computer is set at 200 lbs per lane mile, that is how much salt is dispensed in a mile of travel. 200 lbs of salt could be placed in two-three 5 gallon plastic buckets. A little salt goes a long way.
 - c. The next salt reduction process we use is apply brine to our granular salt at the dispensing point (spinner) as we salt roads. By wetting the salt, it will melt snow/ice at a lower road temperature and keep the salt on the road by reducing the "bounce" factor, thus reducing the amount of salt used overall. Because regular road salt is not very effective at road temperatures around 10 degrees, wetting it increase its effectiveness and provides us with the ability to obtain bare pavement in colder conditions.
 - d. Furthermore, we'll plow off two inches of snow where in years past, we would salt it if. What I mean by that is salting the entire city to remove two inches of snow would use 800-1000 tons of salt. By plowing off the snow first and applying a light coat, will reduce our salt usage to about 200-500 tons for the event. This alone save a significant amount of salt annually.
4. Last year through our street sweeping program we removed (190) yards of debris from City streets. An additional 50 yards was removed by our contractor for the same period (2009). I do not have the ability to provide actual weight for the yards we took to the landfill as they do not scale loads at the facility. We are working on a process to gather weight as well as yards of sweeper waste collected for this years program and next years report.

If you need anything else, please contact me.

Bill

>>> Kristin Yorko 2/2/2010 3:54 PM >>>

Ron, Bill and Beth - It is that wonderful time of year when we get to work together on our annual report to OEPA. I have quickly gone through the permit to see what information I need from you. The following is a list of the items I know for certain I need from you. Please bear with me, but since this is the first year in filling the new form out, I may have additional information requests in the near future.

1. Training - Have you folks done any pollution prevention/housekeeping type training throughout the year? If so, what was the topic, # of employees attended, date completed, brief description, etc.
2. Disposal of wastes - Not sure this is all you folks, so please give me the information on your areas of responsibility. Also, please send me what ever procedures you have in place on proper disposal of wastes.
3. Road Salt - Our salt stockpile is covered correct? Tons used. You will get a kick out of this - Summarize measures to minimize usage.
4. Street Sweeping - Do we have a formal procedure on this? What amount of material was collected and properly disposed.

We also have to do some forecasting with the items listed above. Do you have any specific plans for next year on any of these items listed? Please let me know if you need any clarifications on any of these items. The report is due April 1st, and I would to have the month of March to work on this and I may need more information, so I want to have enough time make additional requests. So, please provide the above information to me by the end of February. Please let me know if this is unreasonable or if you need more time.

Thank you for all your help in gathering this information.

Parks Open Space Chemical Usage Summary

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
<u>Horticulture</u>					
<u>Fertilizers</u>					
Woodace 14-14-14	27 lbs.	15 lbs.	2 lbs.	37 lbs.	0
Chleated Iron		300 mL	0	0	0
Macron		12.5 lbs.	20 lbs.	0	0
<u>Herbicides</u>					
Dimension				6.75 oz.	0
Crossbow				124.46 oz.	0
Round-up Quik Pro	2243 oz.	2632 oz.	3334 oz.	3062 oz.	1632.25 oz.
Snapshot 2.5 TG	1065 lbs.	467.7 lbs.	255 lbs.	0	0
Tordon RTU Herbicide	257 oz.	121 oz.	0	0	0
Prosecutor		523.7 oz.	4414 oz.	1441.24 oz.	1887.5 oz.
Scythe		48 oz.	0	23.5 oz.	7.5 oz.
Sucker Stopper RTU			92 oz.	0	0
Freehand 1.75g				490 cups	0
Sureguard				873 tsp.	621.5 tsp.
<u>Insecticides</u>					
Pointer (EAB)	337 mL.		0	0	0
Imajet Herbicide (EAB)	1742 mL.		0	0	0
Tree-Age (EAB)		7579 mL.	1623 mL.	1698.64 mL	4451 mL.
Crosscheck Plus				5.9 oz.	
<u>Forestry</u>					
<u>Fungicides</u>					
Phospo-Jet					1056.25 ml
<u>Insecticides</u>					

Parks Open Space Chemical Usage Summary

Tree-Age (EAB)	38 L	25.5 L	50.5 L	25.7 L	48.6L
Bandit		104.5 oz.	14.87 oz.		48.63 oz.
Bifen		130.5 oz.	299.2 oz.		14 oz.
Crosscheck		87 oz.	2.5 oz.	6 oz.	.168 oz
Pentrabark (additive)		523.25	72.75 oz.		278 oz.
<u>Herbicides</u>					
Roundup	20.5 oz.	46.5 oz.	14.5 oz.	178 oz.	68.5 oz.
Preen Plus	19 cups	0	10.25 cups		4 c.
Sucker Stopper		13.1 oz.	2.15 oz.	36 oz.	36 oz.
Florel				2 oz.	4 gal.
Snapshot				13 c.	69.5 c
Freehand					416 oz.
Merit	25.6 oz.	0	0	40 oz.	0
Tordon		25 oz.	0	1 oz.	0
Cambistat		6504 mL.	0	9225 mL.	0
Pinscher		107 mL.	0		0
Moss Max		32 oz.	0		0
<u>Fertilizers</u>					
Soil Moist Polymer Disks	1216 disks	2584 disks	1995 disks	2473 discs	2974 discs
Macron 20-20-20	150 lbs.	0	114 lbs.		140 lbs.
Manganese Combo			15 oz.		13 oz.
Penn Mulch				4198 c.	1291 c.
Woodace 14-14-14				331 c.	591 c.
Min-Jet Iron					8131 ml
Root-Jet Iron					572.5 ml
Chelated Iron Plus	30 gal.	15.2 gal.			0
Arbor Green	345 lbs.	0	45 lbs.		0
<u>Misc.</u>					
Liquid Fence				40 oz.	40 oz.
Recede					1 oz.

Parks Open Space Chemical Usage Summary

Calcium Pellets (de-icer)						
Road Runner (de-icer)						300 lbs.
Pure Ice Melt (de-icer)						790 lbs.
Magic Salt (de-icer)						4040 lbs.
Environ Melt (de-icer)						50 lbs.
Spreader sticker						0
						0

	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>
--	-------------	-------------	-------------	-------------

Turf Fertilizer
320 acres of turf

	232550lbs.	258000lbs.	163300lbs	199000lbs.	177850 lbs.
--	------------	------------	-----------	------------	-------------

Turf Fertilizer w/Pre-emergent weed control
63 acres of turf
10 acres of turf
1.65 acers of turf

	10900 lbs.	1700 lbs.	300
--	------------	-----------	-----

Turf Herbicide
9109 oz. 16594 oz. 18115 oz. 19443 oz. 18575 oz.

Turf Fertilizer w/Insecticide
70 acers of turf

22000 lbs.

Turf Insecticide
44 acres of turf
.64 acres of turf

	1027 oz.	400 lbs.
--	----------	----------

Pond Dye
9.97 surface acres of water (dye packets)
8.69 surface acres of water (dye packets)

	1115 oz	612 oz.
--	---------	---------

Parks Open Space Chemical Usage Summary

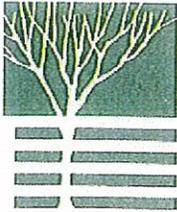
11.61 surface acres of water (liquid dye) 4570 oz.
13.95 surface acres of water (liquid dye) 3739 oz. 15800 oz.

Pond Algaecide 23.5 gal 28 gal. 17 gal. 25.4 gal. 43 gal.

Pond Reward (Aquatic Weed Control) 6 gal. 3.39 gal. 4.10 gal. 13.61 gal. 14.83 gal.

2013

<u>Property Name</u>	<u>Total Cutrine Plus Used (Gallons)</u>	<u>Total Dye Used (Gallons)</u>	<u>Total Enzymes Used (Qts)</u>	<u>Total Aquathol (Herbicide) Used</u>
33/ Avery Rd. South	1.5	1.25	1.5	N/A
33/ Avery Rd. North	3	1.25	1	N/A
Kendal Ridge	2.25	2.15	2.5	1 Gallon
Balfanrae	2.5	4.15	1.5	1 Gallon
Cromers Creek	0.5	4	2.25	N/A
Balgriffin	1.75	1.25	1.5	1 Gallon
Heather Glen North	1.5	1.25	1.75	.75 Gallon
Shier-Rings/ Emerald	1.25	1.25	2.5	1.50 lb Granular
Justice Center South East	1.75	1.15	1.25	N/A
Justice Center North West	1.75	1.25	1.5	3/4 lb Granular
Wyndam South	5	2.25	3.25	N/A
Manteo Drive	3	1	1.5	.50 Gallon
Lowell Trace	7.5	2.25	3.5	2 Gallons
Red Trabue South West	2.25	1	1.25	5 Gallons
Gordon Farms	1.25	1.15	1	2.5 Gallons
Post Preserve 2	4	1.65	2	1.75 Gallons
Post Preserve 1	3.5	2.5	2	3.5 Gallons/ 2.25 lbs Granular
Park Place	15	3.95	3.5	2.50 Gallons
Bishop Crossing	0.75	2.95	1	N/A
Westbury West	2	2.5	1.25	N/A
Westbury East	1.75	1.15	1	N/A
Belvedere West	1.75	2.75	1.5	N/A
Belvedere East	2.25	2.15	2.5	.50 Gallons
Shannon Glen	1.25	0.75	1.5	N/A
Avery/ Brand Rd.	0.75	1.55	1.25	N/A
Hawks Nest East	1.5	0.95	1	.5 Gallon
Hawks Nest West	2.5	1.25	1	1.25 Gallons
Wellington West	4.25	1.25	2.50	.75 Gallon
Wellington East	2	1.15	2.25	.75 Gallon
Sandwich Ct.	0.75	0.75	1	N/A
Conine Rd.	10	1.75	3.25	N/A
	90.75	55.6	53.75	20.75 Total Gallons / 4.5 lbs Granular



ROCKY FORK COMPANY
Fence and Landscape Services

Fertilizer: 25-2-3 24,200 lbs. – Advanced Turf Solutions 50% Slow Release
10-0-3 12,750 lbs. – Advanced Turf Solutions .37% Prodiamine 100%SCU

Herbicides: Dimension 2450 lbs. - .25G Andersons
3-way 6860 ozs. – Armortech Threesome – 2,4-D, Mecoprop-p, Dicamba
Round up 420 ozs. - Glyphosate

Training: State Department of Agriculture Commercial Applicator continuing education.

City of Dublin – Facilities

39.00 ac

14-0-5 w/ Halts	6,792 lbs.
.28% ai - prodiamine	(1,901.76)
Weed-B-Gon	849 gal
	1,867.8 oz. ai
16-2-5 w/ 2% iron	5,097 lbs.
Weed-B-Gon	200 gal
	440 oz. ai
.16 gal Halts Post Concentrate	
40% Quinclorac	
32-0-10	6,000 lbs.
Weed-B-Gon	350 gals
	770 oz. ai
Roundup (Glyphosate)	13 gallons
Safeguard (Flumioxazin)	70 ounces
Broadstar (Flumioxazin)	1,200 lbs

City of Dublin – North
110.00 ac

14-0-5 w/ Halts	19,164 lbs.
.28% ai - prodiamine	(5,365.92)
Weed-B-Gon	770 gal
	1,694 oz. ai
16-2-5 w/ 2% iron	14,376 lbs.
Weed-B-Gon	600 gal
	1,320 oz. ai
.48 gal Halts Post Concentrate	
40% Quinclorac	
32-0-10	10,250 lbs.
Weed-B-Gon	580 gals
	1,276 oz. ai
Roundup (Glyphosate)	35 gallons
Safeguard (Flumioxazin)	150 ounces
Broadstar (Flumioxazin)	1,025 lbs