

Table 1: Project Master List

Activity/Project	Stakeholders	SubWatershed	Cost (if available)	Beneficial Use Impairment Addressed									Timeline (from WMP)	Priority (from WMP)
				Restrictions on fish and wildlife consumption	Fish tumors or other deformities	Degradation of benthos	Restrictions on dredging activities	Eutrophication or undesirable algae	Beach Closings	Degradation of aesthetics	Degradation of fish and wildlife populations	Loss of fish and wildlife habitat		
Wastewater Treatment System Improvements (WWTSI)														
SSO Corrective Action Plans & Permits		All								✓				
CSO Corrective Actions & Permits		All						✓	✓	✓	✓			
Colony Estates Subdivision Footing Drain disconnection (from sanitary)	Northville Twp	Middle 1	\$25,000							✓	✓	✓	Short	Low
Collaborative IDEP Activities														
County-Based Complaint Response	ARC, Communities, Counties	All								✓				
Rouge Collaborative IDEP & Toxic Material Collections	ARC, Communities, Counties	All	1.2 Million	✓	✓	✓	✓			✓	✓	✓		
County-Based Advanced Investigations	ARC, Communities, Counties	All						✓	✓	✓	✓			
Staff Training	ARC, Communities, Counties	All												
Minimize Seepage from Sanitary Sewers	ARC, Communities, Counties	All								✓				
Minimize OSDS	ARC, Communities, Counties	All								✓				
Inspection of ARC Member Owned Facilities	ARC, Communities, Counties	All												
Visual Inspection During Routine Field Investigations	ARC, Communities, Counties	All												
Point of Storm Water Discharge - Dry Weather Survey	ARC, Communities, Counties	All												

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Collaborative IDEP Activities (cont.)															
Map of Storm Water Discharge Points to Waters of the State	ARC, Communities, Counties	All													
Unique Method to Evaluate IDEP Effectiveness	ARC, Communities, Counties	All													
IDEP Volunteer Training	ARC, Communities, Counties	All													
Collaborative PEP Activities															
Distribute pollution prevention literature (coordinated procurement)	ARC, Communities, Counties, Stewardship Groups	All													
Rouge Collaborative PEP & GI/LID Education Campaign	ARC, Communities, Counties	All	1.0 Million	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Coordinated Community Newsletter Articles & Ads (Graphics)	ARC, Communities, Counties, Stewardship Groups	All													
Displays - Events & Static	ARC, Communities, Counties, Stewardship Groups	All													
Environmental Hotline Promotion	ARC, Communities, Counties, Stewardship Groups	All													
Advertisements	ARC, Communities, Counties, Stewardship Groups	All													
Fertilizer Point of Sale	ARC, Communities, Counties, Stewardship Groups	All													
Workshops & Projects - GZ Sites	ARC, Communities, Counties, Stewardship Groups	All													
Rain Barrel Sales	ARC, Communities, Counties, Stewardship Groups	All													

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Collaborative PEP Activities (cont.)														
Green Schools Activities	ARC, Communities, Counties, Stewardship Groups	All												
Value of Trees Campaign	ARC, Communities, Counties, Stewardship Groups	All												
Technical Advisory Committees	ARC, Communities, Counties, Stewardship Groups	All												
River Day	ARC, Communities, Counties, Stewardship Groups	All												
Volunteer Monitoring - Benthics	ARC, Communities, Counties, Stewardship Groups	All				✓					✓	✓		
Volunteer Monitoring - Frog & Toad	ARC, Communities, Counties, Stewardship Groups	All									✓	✓		
System Labelling/Signage	ARC, Communities, Counties, Stewardship Groups	All												
ARC Public Involvement and Education Committee Coordination	ARC, Communities, Counties, Stewardship Groups	All												
SE Michigan Partners Coordination	ARC, Communities, Counties, Stewardship Groups	All												
PEP - Animal Waste Management														
Animal Waste Management	Communities, Counties, Stewardship Groups, Public/Private Stakeholders	Overall	\$500 - \$15,000							✓	✓		Short	Medium / High
Provide pet-waste bags, trash cans, and educational signage regarding proper disposal.	Birmingham	Main 1-2	\$15,000							✓	✓		Short	High
Provide pet-waste bags, trash cans and educational signage regarding proper disposal.	Rouge Green Corridor									✓	✓			

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PEP - Rain Barrel Programs														
Rain barrel program for local businesses located within the historic lakefront district and possibly promote it for homeowners. Probably 50 to 100 rain barrels would be needed.	Walled Lake	Middle 1	\$5,000 - \$10,000			✓		✓	✓	✓	✓	✓	Short	High
Develop downspout disconnection programs/rain barrel use	Rouge Green Corridor					✓		✓	✓	✓	✓	✓		
Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID)														
Green infrastructure assessment/visioning and implementation to address volume storage.	ARC, Communities, Counties, Stewardship Groups	Overall	\$5,000-5 Million			✓				✓	✓	✓	Short	High
Green Infrastructure Implementation Projects	ARC, Communities, Counties	All	50 Million	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Pervious pavement installation (Riley Park parking lot, E. V. Mercer Beach parking area, possibly city-owned road in subdivisions, and sidewalks in the historic lakefront district)	Walled Lake	Middle 1	\$5,000-\$50,000							✓	✓		Long	Medium
Lower Rouge DOE, Road & Park Maintenance Yard Impervious & GI Assessments and Capital Improvement Recommendations	Wayne County	Lower 2	\$10,000							✓	✓		Short	High
DOE LID/LEED Offices – Green Roof, Pervious Pavement & Green Infrastructure Demonstration Facility	Wayne County	Lower 2	\$1,000,000			✓				✓	✓	✓	Mid	High
Wayne County Main 3/4 Rouge DOE, Road & Park Maintenance Yard Impervious & GI Assessments and Capital Improvement Recommendations	Wayne County	Main 3-4	\$10,000			✓				✓	✓	✓	Short	High
Implement Green Streets projects via construction of green infrastructure along roadways and parking lots.	City of Detroit	Main 3-4	\$30 Million			✓				✓	✓	✓	Mid	High
Increase tree canopy along roadways, municipal properties and open spaces.	City of Detroit	Main 3-4	\$15 Million			✓				✓	✓	✓	Short	High
Implement green infrastructure on municipal properties.	City of Detroit	Main 3-4	\$15 Million			✓				✓	✓	✓	Short	High

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Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID) (cont.)															
Implement downspout disconnection in Residential, Commercial and Industrial areas and replace with green infrastructure techniques where feasible.	City of Detroit	Main 3-4	\$10 Million			✓					✓	✓	✓	Mid	High
Middle Rouge Road & Park Maintenance Yard GI and Impervious Reduction Retrofits	Wayne County	Middle 1	\$1,000,000			✓					✓	✓	✓	Long	Medium
Storm Water Retrofit Analysis	ARC, Communities, Counties	Overall	\$200,000							✓				Short	Medium
Storm Water Retrofit Practices	Communities, Counties	Overall	\$5,000 - \$500,000							✓				Mid	Medium
Community Park Storm Water Enhancements (Pervious Pavement, Grow Zones, Tree Planting, etc.)	Northville Twp	Middle 1	\$250,000			✓		✓	✓	✓	✓	✓	✓	Short	High
Millennium Park Storm Water Enhancements (Grow Zones, Detention Pond Retrofit, etc.)	Northville Twp	Middle 1	\$200,000			✓		✓	✓	✓	✓	✓	✓	Mid	High
Dept of Public Works Storm Water Enhancements (Rain Gardens, Green Roof, Grow Zones, Pervious Pavement, etc.)	Northville Twp	Middle 1	\$300,000			✓		✓	✓	✓	✓	✓	✓	Mid	High
Ridge Pond Grow Zone	Northville Township	Middle 1	\$35,000			✓		✓		✓	✓	✓	✓	Mid	High
City Hall Grow Zone	Northville Township	Middle 1	\$50,000			✓		✓		✓	✓	✓	✓	Long	High
Thayer's Corner Habitat Enhancement (Grow Zones, Native Plantings, Rain Gardens, Pervious Pavement, etc.)	Northville Twp	Middle 1	\$300,000			✓		✓	✓	✓	✓	✓	✓	Long	Medium
Rain garden/bioretention implementation on public property (E. V. Mercer Beach parking area and possibly at Veterans' Memorial at S. Pontiac Trail and W. Walled Lake Drive, in curbed area along W. Walled Lake Drive, and in Riley Park.	Walled Lake	Middle 1	\$5,000-\$25,000			✓		✓	✓	✓	✓	✓	✓	Short	High

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Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID) (cont.)														
Rouge Green Corridor Networking/Initiative	Communities, Counties, Stewardship Groups, Public/Private Stakeholders	Overall	\$250,000										Long	Medium
Storm water implementation projects (rain gardens, tree planting, pervious pavement, grow zones, etc.) at Riley Park	Walled Lake	Middle 1	\$5,000-\$100,000			✓		✓	✓	✓	✓	✓	Short	High
Rain garden/bioretention implementation in residential neighborhoods (Virginia Park Subdivision, Jenny Park Subdivision, Philipskis Walled Lake Subdivision, Hillcroft Subdivision, Clutz Lakeview Subdivision, and Welfare Lakeview Subdivision)	Walled Lake	Middle 1	\$2,000-\$25,000			✓		✓	✓	✓	✓	✓	Long	Medium
Middle Rouge Grow Zones, Tree Planting and Signage	Wayne County	Middle 1	\$100,000			✓		✓		✓	✓	✓	Short	High
Middle Rouge Road & Park Maintenance Yard Impervious & GI Assessments and Capital Improvement Recommendations	Wayne County	Middle 1	\$10,000							✓	✓	✓	Mid	High
Middle Rouge Road & Park Maintenance Yard GI and Impervious Reduction Retrofits	Wayne County	Middle 1	\$1,000,000			✓		✓		✓	✓	✓	Long	Medium
City Hall Storm Water Enhancements	Dearborn Heights, Wayne County, Non-profit Groups	Middle 3	\$80,000							✓	✓	✓	Short	High
Canfield Recreation Center Storm Water Enhancements	Dearborn Heights, Wayne County, Non-profit Groups	Main 3-4, Lower 2, Middle 3	\$100,000							✓	✓	✓	Short	High
Middle Rouge DOE, Road & Park Maintenance Yard Impervious & GI Assessments and Capital Improvement Recommendations	Wayne County	Middle 3	\$10,000										Mid	High
Grow Zone Implementation at Barchester Park, Griffin Park, Freedom Park, Heritage Park & Patroit Park.	Canton Township	Lower 1	\$3,000 - \$80,000			✓		✓		✓	✓	✓	Short	High
Wayne County Lower Rouge Parkway Grow Zones and Signage	Wayne County	Lower 1	\$100,000			✓		✓		✓	✓	✓	Short	Hlgh

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Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID) (cont.)														
Municipal Parking Lot No. 1 (Michigan Ave & Wayne Rd) storm water improvements.	City of Wayne	Lower 2	\$1.5 Million					✓		✓	✓		Short	Medium
Lower Rouge Grow Zones, Tree Planting and Signage	Wayne County	Lower 2	\$100,000			✓		✓		✓	✓	✓	Short	High
Lower Rouge Road & Park Maintenance Yard GI and Impervious Reduction Retrofits	Wayne County	Lower 2	\$1,000,000			✓		✓	✓	✓	✓	✓	Long	Medium
Shiawassee Park Storm Water Improvements (rain gardens/bioretention)	City of Farmington	Upper	\$30,000			✓		✓		✓	✓	✓	Short	High
Complete City-wide BMP analysis.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$150,000										Short	High
Update Storm Drainage Master Plan and incorporate BMP solutions.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$250,000										Short	High
City Hall Storm Water Enhancement Project (i.e. porous pavement, green roofs, cisterns, bioswales, public education, etc.)	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$500,000			✓		✓	✓	✓	✓	✓	Short	High
Native vegetation demonstration areas on City-owned properties, including Natural Beauty roads, fire stations and City projects.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$25,000			✓				✓	✓	✓	Short	High
Porous pavement installation at City facilities (i.e. Costick Center, Ice Arena, Founders Sports Park, City Hall, DPW, Fire Stations, etc.)	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$2 Million			✓		✓	✓	✓	✓	✓	Short	High
Public and private storm water enhancements on various land uses (i.e. grow zones, riparian buffers, rain gardens, etc.).	City of Farmington Hills, Private Stakeholders	Middle 1, Upper, Main 1-2	\$300,000			✓		✓	✓	✓	✓	✓	Short	High
Grow zone implementation on City-owned property that are currently turf grass or other non-native plants and covered by impervious surfaces.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$250,000			✓		✓	✓	✓	✓	✓	Short	High
City of Farmington Hills storm water enhancements on commercial property owners in Community Development Block Grant.	City of Farmington Hills, Private Stakeholders	Middle 1, Upper, Main 1-2	\$1 Million					✓	✓	✓	✓	✓	Short	Medium

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Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID) (cont.)														
Regional storm water facilities in southeast section of City.	City of Farmington Hills	Main 1-2	\$500,000					✓	✓	✓	✓	✓	Mid	High
Implementation of City-wide BMP analysis.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$3 Million					✓	✓	✓	✓	✓	Mid	High
Orchard Lake Road Corridor Storm Water Enhancement Projects.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$250,000					✓	✓	✓	✓	✓	Long	Medium
Rain Garden Installation and Municipal Offices	Redford Township	Upper	\$50,000			✓		✓	✓	✓	✓	✓	Short	High
Beverly Elementary School Rain Garden	Beverly Hills, School System, Private Stakeholders, SOCWA	Main 1-2	\$30,000			✓		✓	✓	✓	✓	✓	Short	High
Identify opportunities to redirect storm water into enhancement areas.	Birmingham	Main 1-2	\$35,000										Mid	Medium
Bioswale implementation Bloomfield Hills right-of-way, on the south side of Long Lake Road, off of Barden Road, west of Woodward	Bloomfield Hills	Main 1-2	\$70,000			✓		✓	✓	✓	✓	✓	Short	High
Birmingham Country Club Grow Zone	Bloomfield Township, Birmingham Country Club	Main 1-2	\$35,000			✓		✓	✓	✓	✓	✓	Short	High
Franklin Historical Museum Storm Water & Ecological Enhancements	Franklin Historical Museum, Franklin, Private Stakeholders	Main 1-2	\$50,000			✓		✓	✓	✓	✓	✓	Short	High
Franklin Community Rain Garden Installation	Franklin, Private Stakeholders	Main 1-2	\$25,000			✓		✓	✓	✓	✓	✓	Long	High
Lathrup Village Rain Garden Installation	Lathrup Village, SOCWA, Private Stakeholders	Main 1-2	\$10,000			✓		✓	✓	✓	✓	✓	Short	High
Southfield Adler School Rain Garden	Southfield, Alder School, SOCWA	Main 1-2	\$15,000			✓		✓	✓	✓	✓	✓	Short	High

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Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID) (cont.)														
Implement native vegetative buffer along river at Beech Woods Park Golf Course	Southfield	Main 1-2	\$50,000			✓		✓	✓	✓	✓	✓	Short	High
Restore area near Bridge Street to mesic wet meadow at Valley Woods Nature Preserve South	Southfield, SRRLC	Main 1-2	\$25,000			✓		✓	✓	✓	✓	✓	Short	High
Beech Woods Storm Water Enhancement & Greening Project	City of Southfield	Main 1-2	\$2 Million			✓		✓	✓	✓	✓	✓	Short	High
Storm Water Enhancements on public and private property (i.e. porous pavements, green roofs, cisterns, bioswales, grow zones, rain gardens, tree planting, etc.).	City of Southfield, Private Stakeholders, Corporate Stakeholders, Stewardship Groups	Main 1-2	\$2 Million			✓		✓	✓	✓	✓	✓	Short	High
Washington Heights Drainage Improvements – regional storage or onsite BMPs.	City of Southfield, Private Stakeholders	Main 1-2	\$3 Million					✓	✓	✓	✓	✓	Short	High
Holy Sepulchre Storm Water Retention Project – lake improvements to alleviate flooding and erosion downstream.	City of Southfield	Main 1-2	\$2 Million			✓		✓	✓	✓	✓	✓	Long	Medium
Bioretention along Parking Lot- LID implementation on Lawrence Tech	Lawrence Tech University	Main 1-2	\$80,000					✓	✓	✓	✓	✓	Long	High
West Bloomfield Township private storm water enhancements (i.e. rain gardens, grow zones, etc.)	West Bloomfield Township, Private Stakeholders	Main 1-2	Various			✓		✓	✓	✓	✓	✓	Long	High
Wayne County Main 3/4 Rouge Grow Zones, Tree Planting and Signage	Wayne County	Main 3-4	\$100,000			✓		✓	✓	✓	✓	✓	Short	High
Wayne County Main 3/4 Rouge DOE, Road & Park Maintenance Yard GI and Impervious Reduction Retrofits	Wayne County	Main 3-4	\$1,000,000					✓	✓	✓	✓	✓	Long	Medium
Michigan Avenue /Evergreen Road storm water treatment and habitat restoration. (USACE –Rouge River 905(B), 2003)	Wayne County, ARC, USACE, Rouge Gateway Partnership Members, other local communities and groups.	Main 3-4	2.5 Million			✓		✓	✓	✓	✓	✓	Long	High
Basin Naturalization and Retrofitting of Basins listed in the Rouge Main 1-2 Subwatershed Detention Basin Inventory Study-	Communities, Oakland County	Main 1-2						✓	✓	✓	✓	✓		

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Green Infrastructure/Low Impact Development Retrofit Projects & Activities (GI/LID) (cont.)														
Identify where direct connections and outfalls can be daylighted	Rouge Green Corridor	Beverly Hills, Birminham, Southfield												
Tree canopy enhancement program.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$500,000			✓		✓		✓	✓	✓	Short	High
Conservation Easement at Sisters of Mercy Property	Farmington Hills	Middle 1, Upper, Main 1-2	\$50,000					✓			✓	✓	Short	High
Lathrup Village Tree Planting	Lathrup Village, Private Stakeholders, Non-Profits	Main 1-2	\$10,000			✓		✓		✓	✓	✓	Short	Hlgh
Purchase Berberian Property to preserve natural habitat and rare plant species.	City Southfield, Private Stakeholders, Corporate	Main 1-2				✓		✓		✓	✓	✓	Short	High
Tree canopy enhancement program.	City of Southfield	Main 1-2	\$500,000								✓	✓	Short	Hlgh
Rouge Park Master Plan & Implementation Activities	City of Detroit Recreation Dept, Friends of Rouge Park	Main 3-4	\$100,000								✓	✓		
Rouge Park Natural Areas Management	City of Detroit Recreation Dept, Friends of Rouge Park	Main 3-4	\$200,000										Short	High
Demolish and remove vacant structures and replace with pervious land cover.	City of Detroit	Main 3-4	\$84 Million								✓	✓	Short / Long	Hlgh
Develop and implement woodland protection ordinances in Birmingham and Beverly Hills	Birminham, Beverly Hills	Main 1-2												
GI/LID - Detention and Retention Basin Maintenance and Retrofits														
C&O Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$300,000			✓		✓	✓	✓	✓	✓	Short	High

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GI/LID - Detention and Retention Basin Maintenance and Retrofits (cont.)														
West Oaks Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$110,000			✓		✓	✓	✓	✓	✓	Short	High
Cedar Springs Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$100,000			✓		✓	✓	✓	✓	✓	Short	High
Civic Center Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$160,000			✓		✓	✓	✓	✓	✓	Mid	Medium
Meadowbrook Glens Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$100,000			✓		✓	✓	✓	✓	✓	Mid	Medium
Ingersol Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi, MDOT	Middle 1	\$15,000			✓		✓	✓	✓	✓	✓	Mid	Medium
Jamestown Green Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$70,000			✓		✓	✓	✓	✓	✓	Mid	Medium
Leavenworth Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$100,000			✓		✓	✓	✓	✓	✓	Long	Low
Lexington Green Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$40,000			✓		✓	✓	✓	✓	✓	Long	Low
Thornton Basin Storm Water Enhancements (Water Quality Improvements, Habitat Enhancements, Native Plant Buffer)	City of Novi	Middle 1	\$140,000			✓		✓	✓	✓	✓	✓	Long	Low
East Bay Village Condominiums Detention Basin Enhancements	Walled Lake, Private Stakeholders	Middle 1	\$50,000			✓		✓	✓	✓	✓	✓	Mid	Medium
Public and private Detention Basin Storm Water Enhancements (i.e. Founders Sport Park, Cass Road, Farmington Hills Golf Club, Fire Stations, etc.)	City of Farmington Hills, Private Stakeholders	Middle 1, Upper, Main 1-2	\$1 Million			✓		✓	✓	✓	✓	✓	Short	High
West Bell Branch Regional Storm Water Storage Basins from <i>City of Livonia Storm Water Management Plan</i>	City of Livonia	Upper	\$700,000			✓		✓	✓	✓	✓	✓	Mid	High

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GI/LID - Detention and Retention Basin Maintenance and Retrofits (cont.)														
Whispering Willows Regional Storm Water Storage Basins from <i>City of Livonia Storm Water Management Plan</i>	City of Livonia	Upper, Middle 3	\$400,000			✓		✓	✓	✓	✓	✓	Mid	Medium
Shamrock Village Retention Basin Retrofit	Redford Township	Upper, Main 3-4	\$120,000			✓		✓	✓	✓	✓	✓	Long	Low
Riparian & Upland Management	Communities, Counties, Stewardship Groups, Public/Private Stakeholders	Overall	\$3,000 - \$50,000			✓		✓		✓	✓	✓	Short	High
Acquisition of riparian lands, develop trails, connecting pathways and other City-owned properties.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$2 Million			✓		✓		✓	✓	✓	Long	Medium
MDOT Tamarack Basin Storm Water Enhancements	City of Southfield, MDOT, Private Stakeholders	Main 1-2	\$2-\$4 Million			✓		✓	✓	✓	✓	✓	Short	High
City of Southfield Detention Ponds Storm Water Enhancements	City of Southfield, Private Stakeholders	Main 1-2	\$5 Million			✓		✓	✓	✓	✓	✓	Short	High
GI/LID - Stream and Streambank Repair & Protection														
Stream Repair & Protection	Communities, Counties, Stewardship Groups	Overall	\$3,000 – 2 Million							✓	✓	✓	Long	Low / Medium
Brookfarm Park Streambank Stabilization	City of Novi	Middle 1	\$115,000			✓		✓		✓	✓	✓	Long	Low
Rotary Park Streambank Stabilization	City of Novi	Middle 1	\$165,000			✓		✓		✓	✓	✓	Long	Low
Ford Field Streambank Stabilization	City of Dearborn	Lower 2	\$80,000			✓		✓		✓	✓	✓	Long	Low
Implementation of restoration activities based on City of Wayne stream bank erosion inventory.	City of Wayne	Lower 2	\$15,000 - \$500,000			✓		✓		✓	✓	✓	Long	Low

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				Restrictions on fish and wildlife consumption	Fish tumors or other deformities	Degradation of benthos	Restrictions on dredging activities	Eutrophication or undesirable algae	Beach Closings	Degradation of aesthetics	Degradation of fish and wildlife populations	Loss of fish and wildlife habitat		
GI/LID - Stream and Streambank Repair & Protection (cont.)														
Public and private riparian property improvements (i.e. erosion control, natural vegetation, etc.)	City of Farmington Hills, Private Stakeholders	Middle 1, Upper, Main 1-2	\$500,000			✓		✓		✓	✓	✓	Mid	Medium
Minnow Pond Drain (Farmington Rd) Farmington Hills Streambank Erosion Inventory	Farmington Hills	Middle 1, Upper, Main 1-2	\$15,000										Long	Low
Seeley Drain – 620’ (Halsted Rd)- Farmington Hills Streambank Erosion Inventory	Farmington Hills	Middle 1, Upper, Main 1-2	\$10,000										Long	Low
Bell Branch @ 5 Mile & Levan - Stream Bank Stabilization from <i>City of Livonia Storm Water Management Plan</i>	City of Livonia	Upper	\$110,000			✓		✓		✓	✓	✓	Long	Low
Bell Creek near Bell Creek Court	City of Livonia	Upper	\$531,000			✓		✓		✓	✓	✓		
5 Mile Road and Levan Road	City of Livonia	Upper	\$450,000			✓		✓		✓	✓	✓		
I-275 and Hix Road			\$1,100,000			✓		✓		✓	✓	✓		
Tarabusi Creek and North Bell Branch Intersection	City of Livonia	Upper	\$900,000			✓		✓		✓	✓	✓		
Tarabusi Creek South of 8 Mile - Stream Bank Stabilization from <i>City of Livonia Storm Water Management Plan</i>	City of Livonia	Upper	\$2.1 Million			✓		✓		✓	✓	✓	Long	Low
Booth Park Streambank Stabilization Project & Floodplain Enhancements	Birmingham	Main 1-2	\$600,000			✓		✓		✓	✓	✓	Long	Medium
Tributary to Rouge River Site # 20825 Streambank Erosion	Bingham Farms	Main 1-2	\$5,000			✓		✓		✓	✓	✓	Medium	Low
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 10649-10652 Evans Drain	City of Southfield	Main 1-2	\$165,000			✓		✓		✓	✓	✓		

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GI/LID - Stream and Streambank Repair & Protection (cont.)														
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20154 Rouge River, Troy	City of Troy	Main 1-2	\$10,000			✓		✓		✓	✓	✓	Medium	Low
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20156 Rouge River, Troy	City of Troy	Main 1-2	\$1,500			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20562 Rouge River, Troy	Farmington Hills	Middle 1, Upper, Main 1-2	\$13,000			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20646 Trib. A- Main Ravines Drain, Farmington Hills	Farmington Hills	Middle 1, Upper, Main 1-2	\$2,600			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20774 Main Ravines Drain, Farmington Hills	Farmington Hills	Middle 1, Upper, Main 1-2	\$12,000			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20776 Main Ravines Drain, Farmington Hills	Farmington Hills	Middle 1, Upper, Main 1-2	\$11,000			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20825 Unnamed Tributary, Bingham Farms	Bingham Farms	Main 1-2	\$1,200			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 20893 Unnamed Tributary, Southfield	Southfield	Main 1-2	\$143,000			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 21051 Pebble Creek, Southfield	Southfield	Main 1-2	\$18,000			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 21112 Farmington Branch, Southfield	Southfield	Main 1-2	\$18,000			✓		✓		✓	✓	✓		
Rouge Main 1-2 Streambank Erosion Inventory Report Site No. 21159 Rouge River, Southfield	Southfield	Main 1-2	\$29,000			✓		✓		✓	✓	✓		
Upper River Rouge Stream Bank Erosion Inventory Report Site No. 5158- Upstream of Farmington Road Crossing Minnow Pond Drain, Farmington Hills	Farmington Hills	Middle 1, Upper, Main 1-2	\$3,327			✓		✓		✓	✓	✓		

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GI/LID - Stream and Streambank Repair & Protection (cont.)														
Upper River Rouge Stream Bank Erosion Inventory Report SiteNo. 5158- Downstream of Farmington Road Crossing Minnow Pond Drain, Farmington Hills	Farmington Hills	Middle 1, Upper, Main 1-2	\$5,100			✓		✓		✓	✓	✓		
Upper River Rouge Stream Bank Erosion Inventory Report SiteNo. 5423 Seeley Drain, Farmington Hills	Farmington Hills	Middle 1, Upper, Main 1-2	\$6,780			✓		✓		✓	✓	✓		
Establish deep-rooted native plantings along river banks in the 13 Mile/Lahser river reach in Beverly Hills. Work with riparian land owners in this area.	Beverly Hills	Main 1-2				✓		✓		✓	✓	✓		
Expand upon Limno-Tech inventory to develop a RGC corridor-wide large woody debris management plan	Beverly Hills, Birmingham	Main 1-2												
Continue to address high priority erosion identified in 2004 Limno-Tech and Franklin Branch Erosion inventories	Southfield	Main 1-2				✓		✓		✓	✓	✓		
Continue stream bank stabilization for high priority sites identified in the Franklin Branch Erosion Inventory.	Southfield	Main 1-2				✓		✓		✓	✓	✓		
10 Mile to Beech Road between 8 & 9 Mile roads. (Southfield): Stabilize eroding gullies and crumbling infrastructure. Enhance floodwater storage in former oxbows, meander channels and drained wetlands.	Southfield	Main 1-2				✓		✓		✓	✓	✓		
Stabilize eroding gullies and crumbling infrastructure. (Beech Woods Park)	Southfield	Main 1-2				✓		✓		✓	✓	✓		
Repair infrastructure and stabilize stream bank erosion at the 4th hole of the golf course. (Beech Woods Park)	Southfield	Main 1-2				✓		✓		✓	✓	✓		
GI/LID - Wetland and Floodplain Creation and Enhancement														
Woods of Edenderry Wetland Enhancement	Northville Twp	Middle 1	\$30,000			✓		✓	✓	✓	✓	✓	Short	Medium
Pheasant Run Golf Course wetland and floodplain creation, expansion, enhancement.	Canton Township	Lower 1	\$100,000-\$800,000			✓		✓	✓	✓	✓	✓	Long	Medium
Evans Creek Constructed Wetland LID implementation on Lawrence Tech	Lawrence Tech University & Southfield	Main 1-2	\$600,000			✓		✓	✓	✓	✓	✓	Short	High

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GI/LID - Wetland and Floodplain Creation and Enhancement (cont.)														
Using MDEQ wetland/hydric soils maps restore 85 acres wetlands in Valley Woods Nature Preserve South	Southfield	Main 1-2	\$250,000			✓		✓	✓	✓	✓	✓	Mid	High
Tournament Players Golf Course storm water treatment and wetland restoration (USACE –Rouge River 905(B), 2003)	Wayne County, ARC, USACE, Rouge Gateway Partnership Members, other local communities and groups.	Main 3-4	5.5 Million			✓		✓	✓	✓	✓	✓		
Restore capacity of wetlands to store and detain storm water by removing or blocking existing culverts and shallow ditches and placing rock armored inlets within spoil banks and upstream and downstream ends of Valley Woods Nature Preserve at Civic Center	Southfield	Main 1-2				✓		✓	✓	✓	✓	✓		
Explore the potential for a conservation easement on the hillside owned by the DENSO Corporation to facilitate restoration and protection activities. (Valley Woods Nature Preserve)	Southfield	Main 1-2												
Identify areas out of play that could be used/restored as created wetlands for flood storage and water quality protection (Beech Woods Park)	Southfield	Main 1-2												
GI/LID - Invasive Species Removal Programs														
Invasive species removal program throughout City-owned properties (i.e. heritage Park, Woodland Hills Park, Memorial Park, Founders Sport Park, Farmington Hills Golf Club, etc.).	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$150,000								✓		Short	High
Invasive Species Removal in Riverside Park.	SRRLC, Beverly Hills	Main 1-2	\$30,000								✓		Short	Medium
Invasive Species Removal in Douglas Evans Nature Park Preserve	SRRLC, Beverly Hills	Main 1-2	\$30,000								✓		Short	Medium
Develop Invasive Species Management Programs	Beverly Hills, Birminham, Southfield	Main 1-2									✓			
Manage Invasive Species	Beverly Hills, Birminham, Southfield	Main 1-2									✓			

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GI/LID - Green Streets Projects														
Implement Driveway Closures and Consolidations Consistent with the Ford Road Access Mgt Plan (Canton Township) (8 driveway closures @ 1,000 SF = 8,000 SF)	MDOT, Canton Township, Canton DDA	Lower 1	\$300,000										Short	High
Ford/Lotz Road Intersection Improvements	MDOT, Canton Township, Canton DDA	Lower 1	\$350,000										Short	High
I-275 Northbound Off-Ramp to Ford Road Improvements	MDOT, Canton Township, Canton DDA	Lower 1	\$250,000										Short	High
Ford/Sheldon Roads- Add northbound through lane and an exclusive northbound right-turn lane on Sheldon Road	MDOT, Canton Township, Canton DDA	Lower 1	\$300,000										Short	High
Ford/Canton Center Roads- Add exclusive right-turn lane on Ford Road	MDOT, Canton Township, Canton DDA	Lower 1	\$150,000										Short	High
Ford/Beck Roads- Add eastbound and westbound through lanes on Ford Road	MDOT, Canton Township, Canton DDA	Middle 1	\$2 million										Mid	High
Ford/Haggerty Roads- Provide exclusive right-turn lanes in each direction on Ford Road. Convert continuous right-turn lane into shared and through lane in WB direction. Add new through lane in EB direction (halfway to Lilley to I-275)	MDOT, Canton Township, Canton DDA	Lower 1	\$1 million										Mid	High
Provide exclusive right-turn lanes in each direction on Ford Road. Extend continuous right-turn lane into shared/through lane to west of Lilley in WB direction. Add new through lane in EB direction (west of Lilley to halfway to Haggerty)	MDOT, Canton Township, Canton DDA	Lower 1	\$1 million										Mid	High
Implement Boulevard Recommendations with Green Infrastructure Design on Ford Road between I-275 and Lilley Road	MDOT, Canton Township, Canton DDA	Lower 1	\$3 million							✓			Mid	High
Implement Driveway Closures and Consolidations Consistent with the Ford Road Access Mgt Plan (Canton Township) (8 driveway closures @ 1,000 SF = 8,000 SF)	MDOT, Canton Township, Canton DDA	Lower 1	\$300,000										Short	High

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GI/LID - Green Streets Projects (cont.)															
Implement Driveway Closures and Consolidations Consistent with the Ford Road Access Mgt Plan (Westland, Garden City, Dearborn, Dearborn Heights) (30 driveway closures @ 44,000 SF of Impervious Surface)	MDOT, Westland, Garden City, Dearborn, Dearborn Heights	Middle 3, Lower 2	\$500,000										Short	High	
Fish Passage & Habitat - Dam Modification, Improvements and Removal															
Meadowbrook Lake Dam Improvements (Peak flow attenuations and downstream protection)	City of Novi	Middle 1	\$350,000								✓	✓	✓	Short	High
Wayne Rd Dam Modification	Wayne County, FOTR, Communities	Lower 2	\$3 Million									✓	✓	Mid	Medium
Danvers Pond dam removal and riparian restoration.	City of Farmington Hills	Main 1-2	\$500,000									✓	✓	Short	High
Henry Ford Estate Dam Modification for Fish Passage (USACE –Rouge River 905(B), 2003)	Wayne County, local communities, FOTR, ARC, U.S. Army Corps of Engineers (USACE)	Main 3-4	3 Million									✓	✓		
Quarton Dam Modification for Fish Passage	Birmingham	Main 1-2										✓	✓		
Maybury Fish Pond Dam Modification	Northville	Middle 1										✓	✓		
Lovett Dam Modification for Fish Passage	Bloomfield Hills	Main 1-2										✓	✓		
Franklin Drain Dam Removal	Birmingham	Main 1-2										✓	✓		
River Rouge Dam #1 Modification for Fish Passage	Bloomfield Hills	Main 1-2										✓	✓		
Franklin Drain Dam #3 Removal	Birmingham	Main 1-2										✓	✓		

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Fish Passage & Habitat - Dam Modification, Improvements and Removal (cont.)															
Northbrook Gardners Dam Modification	Farmington Hills	Middle 1, Upper, Main 1-2										✓	✓		
Northfield Hills Dam Modification for Fish Passage	Troy	Main 1-2										✓	✓		
San Marino Golf Club Dam Modification for Fish Passage	Farmington Hills	Middle 1, Upper, Main 1-2										✓	✓		
San Marino Golf Club #2 Removal	Farmington Hills	Middle 1, Upper, Main 1-2										✓	✓		
Woodcreek Hills Dam #2 Removal	Bloomfield Hills	Main 1-2										✓	✓		
Dunn-Rovin Golf Course Dam #2 Removal	Plymouth	Middle 1										✓	✓		
Outwood Sub Dam Removal	Bloomfield Hills	Main 1-2										✓	✓		
Fordson Island Habitat Restoration (USACE –Rouge River 905(B), 2003)	Wayne County, Marathon Ashland Petroleum, USACE, ARC and other local communities or groups	Main 3-4	1 Million			✓					✓	✓	✓	Long	High
Concrete Channel Modifications/Enhancements- For Habitat And Fish Populations (USACE, 2003)	Wayne County, ARC, USACE, Rouge Gateway Partnership Members, other local communities and groups.	Main 3-4	15 Million			✓		✓		✓	✓	✓	✓	Long	High
Oakwood Commons Oxbow Restoration (USACE, 2003)	Wayne County, ARC, USACE, Rouge Gateway Partnership Members, other local communities and groups.	Main 3-4	20 Million			✓		✓		✓	✓	✓	✓	Long	High
Rouge River Gateway Project (USACE, 2008)	Wayne County, ARC, USACE, Rouge Gateway Partnership Members, other local communities & groups	Main 3-4	5 Million			✓		✓		✓	✓	✓	✓	Long	High

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Fish Passage & Habitat - Dam Modification, Improvements and Removal (cont.)														
Rouge River Oxbow – Phase 3 (USACE, 2008) –Reconnect oxbow segment at The Henry Ford	Wayne County, ARC, USACE, Rouge Gateway Partnership Members, other local communities & groups	Main 3-4	6.8 Million			✓		✓		✓	✓	✓	Long	High
Newburgh Lake Floating Islands Project for Eutrophication mitigation and fish spawning	Wayne County, Middle Rouge Communities	Middle 3				✓		✓		✓	✓	✓		
Nankin Impoundment Dredging for Fisheries Enhancement	Wayne County, Middle Rouge Communities	Middle 3				✓	✓	✓	✓	✓	✓	✓		
Wilcox Impoundment Dredging for Fisheries Enhancement (same as 3)	Wayne County, Middle Rouge Communities	Middle 1				✓	✓	✓	✓	✓	✓	✓		
Lower Rouge River WDM Management Project - Fisheries and Recreation	Wayne County, Lower Rouge Communities	Lower 1 & 2				✓				✓	✓	✓		
Collaborative Watershed Planning, Financing and Reporting														
General Facilitation	ARC	Overall												
Website maintenance	ARC	Overall												
Watershed Data maintenance	ARC	Overall												
Annual Report Development System & Sections	ARC	Overall												
Grant Writing	ARC	Overall												
Regional Relationships	All	Overall	Various										Short	High
Financial Programs	All	Overall	Various										Short	Medium / High

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Collaborative Watershed Planning, Financing and Reporting (cont.)														
Ordinance Update	Communities, Counties	Overall	\$5,000-\$50,000										Short	Medium / High
Recreational Enhancement & Access	Communities, Counties, Stewardship Groups, Public/Private Stakeholders	Overall	\$5,000 – 5 Million										Mid	Medium
Progress Evaluation Monitoring														
Planning & Reporting	ARC	Overall												
Physical Monitoring	ARC	Overall												
Biological Monitoring	ARC	Overall												
Water Quality/Chemistry Monitoring	ARC	Overall												
Public Education/Involvement	ARC	Overall												
Pollution Prevention/Restoration Projects	ARC	Overall												
Monitoring Activities (FOTR, RPO, Green Infrastructure & Impervious Mapping)	ARC	Overall	\$150,000										Short	High
Progress Evaluation Monitoring - MDNRE BUI Status														
Formally Assess Removal - Fish Consumption Advisory	MDNRE	All		✓										
Formally Assess Removal - Fish Deformities BUI	MDNRE	All			✓									

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Progress Evaluation Monitoring - MDNRE BUI Status (cont.)														
Formally Assess Removal - Restrictions on Dredging BUI	MDNRE	All					✓							
Assess Aesthetic BUI Removal Criteria	MDNRE	All								✓				
Rouge Fish Community Assessment	MDNRE													
Other														
Great Lakes Legacy Act Projects	USEPA	Main 3-4				✓								
Rouge Green Corridor Land Acquisition Planning	ARC, Communities, Counties	All	1 Million			✓		✓		✓	✓	✓		
Rouge Green Corridor Maintenance Planning and Programs	ARC, Communities, Counties	All	200,000			✓		✓		✓	✓	✓		
Lakes and Impoundments- Feasibility Studies and Restoration	ARC, Communities, Counties	Middle 1 and 3	30 Million						✓	✓	✓	✓		
Removal of Contaminated Sediments	USACE				✓	✓								
Rouge River Supplemental Watershed Study (USACE, 2008)	USACE, Communities, Counties	Overall	\$400,000										Short	Medium
Implementation of Turfgrass Stewardship Program on City-owned golf courses and parks.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$150,000			✓		✓			✓		Short	High
Rouge River Clean-Up/ Rouge Rescue	ARC, Communities, Counties, Private Stakeholders, Stewardship Groups	All	\$100,000/annual			✓		✓		✓	✓	✓	Short	High

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Other (cont.)														
Educational workshops on lake friendly lawn care.	Walled Lake	Middle 1	\$5,000										Short	High
Hydroseeder for in-house erosion control and native seeding projects.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$250,000										Short	High
Jet cleaning unit for storm sewer system sediment removal.	City of Farmington Hills	Middle 1, Upper, Main 1-2	\$200,000										Short	High
City Wide Bike Trail	Birmingham, Oakland County	Main 1-2	\$100,000										Short	Medium
Septic Program – low interest load or funding for residents to connect to sanitary sewer when septic system fails.	City of Southfield	Main 1-2	\$2-\$4 Million										Short	High
Vacuum sweeper to maintain porous pavement and provide additional sediment removal.	City of Southfield	Main 1-2	\$150,000										Long	Medium
Carpenter Lake Nature Center and Program Development to include a 'green building' and public education.	City of Southfield	Main 1-2	\$2 Million										Long	High
Develop and enact a Fertilizer Ordinance to require or maximize the use of no-phosphorus fertilizers by commercial applicators.	ARC Communities													
Environmental Indicator Monitoring	ARC, Communities, Counties, FOTR	All				✓					✓	✓		
Sustainable Watershed Management Funding	ARC, Communities, Counties, FOTR, Universities	All				✓		✓	✓	✓	✓	✓		