Retrofit Switchgear 2.4 KV Winton Rd.

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 78

Project Manager: Kraus, P.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide 9 direct replacement 2.4 KV circuit breakers for installation at the Winton Road Pumping Station. The replacement would utilize vacuum technology.

Purpose: This project would maintain the reliability of the plant electrical distribution system.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Feb-2008				$90,000			$90,000	Dec-2008
Other								$0	
Total City Funds		$0	$0	$0	$90,000	$0	$0	$90,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$90,000			$90,000	$90,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$90,000	$0	$0	$90,000	$90,000

Retrofit Switchgear 2.4KV - Summit

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 79

Project Manager: Kraus, P.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide 9 direct replacement 2.4 KV circuit breakers for installation at the Summit Pumping Station. The replacement would utilize vacuum technology.

Purpose: This project would maintain the reliability of the plant electrical distribution system.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Feb-2008				$80,000			$80,000	Dec-2008
Other								$0	
Total City Funds		$0	$0	$0	$80,000	$0	$0	$80,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$80,000			$80,000	$80,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$80,000	$0	$0	$80,000	$80,000

Retrofit Switchgear 5KV - Mt. Washington

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 80

Project Manager: Kraus, P.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide 9 direct replacement 5KV circuit breakers for installation at the Mt. Washington Pumping Station. The replacement would utilize vacuum technology.

Purpose: This project would maintain the reliability of the plant electrical distribution system.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Feb-2008				$100,000			$100,000	Dec-2008
Other								$0	
Total City Funds		$0	$0	$0	$100,000	$0	$0	$100,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$100,000			$100,000	$100,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$100,000	$0	$0	$100,000	$100,000

Harrison Road Pump Station - 5th Unit

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 85

Project Manager: Schaefer, D.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would add a fifth pump at the Harrison Road Pump Station.

Purpose: A fifth pump is needed in the Miamitown and Harrison Avenue areas to meet demand increases.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2008				$25,000			$25,000	Dec-2008
Land								$0	
Construction								$0	
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$25,000	$0	$0	$25,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$25,000			$25,000	$25,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$25,000	$0	$0	$25,000	$25,000

Motor Technology Upgrade - CMBP

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 87

Project Manager: Moster, L.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would replace the existing 5KV motor speed control on pump three and pump four. This upgrade of speed control technology is replacing old wound rotor speed control (resistor bank) technology.

Purpose: This project would maintain reliability of two primary pumping units.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction	Jan-2008				$50,000			$50,000	Dec-2008
Equipment	Jan-2008				$150,000			$150,000	Dec-2008
Other								$0	
Total City Funds		$0	$0	$0	$200,000	$0	$0	$200,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$200,000			$200,000	$200,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$200,000	$0	$0	$200,000	$200,000

Mt. Washington Pump #3

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 88

Project Manager: Kraus, P.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the replacement of the existing pump at Mt. Washington with a new pump.

Purpose: The purpose of this project is to replace the existing pump with a larger capacity pump to service Mt. Washington/Cherry Grove area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jan-2008				$75,000			$75,000	Dec-2008
Other								$0	
Total City Funds		$0	$0	$0	$75,000	$0	$0	$75,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$75,000			$75,000	$75,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$75,000	$0	$0	$75,000	$75,000

Winding Way/Lenox/Glenlyon/Barry

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 92

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for a proposed 30 inch transmission water main to supply central regions of the water system.

Purpose: The purpose of this project is to upgrade the existing feeder through Avondale to supply water northward in the Eastern Hills service area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2008				$70,000			$70,000	Dec-2008
Land								$0	
Construction	Jan-2008				$360,000	$460,000		$820,000	Dec-2009
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$430,000	$460,000	$0	$890,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$430,000	$460,000		$890,000	$890,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$430,000	$460,000	$0	$890,000	$890,000

RMTP Chlorinator Upgrade

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 102

Project Manager: Valentine, W.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project includes the upgrade of existing chlorinator equipment and may include control and switchover instrumentation upgrades.

Purpose: The purpose of this project is to replace older equipment with more updated, safer and reduced maintenance equipment.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jan-2008				$50,000			$50,000	Dec-2008
Other								$0	
Total City Funds		$0	$0	$0	$50,000	$0	$0	$50,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$50,000			$50,000	$50,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$50,000	$0	$0	$50,000	$50,000

Filter Water Pump

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 114

Project Manager: Vandermeyden, C.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would replace some of the current filter water pumps with larger pumps to meet higher water demands. This project would replace two pumps with higher horsepower pumps increasing pumping capacity.

Purpose: This project would replace two smaller filter water pumps with larger ones so increased amounts of water can be pumped to the Granular Activated Carbon (GAC) facility.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Mar-2008				$20,000			$20,000	Jun-2009
Land								$0	
Construction	Jul-2008				$80,000			$80,000	Jun-2009
Equipment	Oct-2008				$400,000	$500,000		$900,000	Dec-2009
Other								$0	
Total City Funds		$0	$0	$0	$500,000	$500,000	$0	$1,000,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$500,000	$500,000		$1,000,000	$1,000,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$500,000	$500,000	$0	$1,000,000	$1,000,000

Gas Chromatograph

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 116

Project Manager: Selar, N.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the replacement of existing gas chromatograph for haloacetic acid, herbicide and pesticide analyses.

Purpose: The purpose of this project is to replace the existing gas chromatograph that is more than ten years old, so that Water Works can maintain certification and comply with regulations for haloacetic acids and regulated herbicides and other pesticides.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2008				$40,000			$40,000	Sep-2008
Other								$0	
Total City Funds		$0	$0	$0	$40,000	$0	$0	$40,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds					$40,000			$40,000	$40,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$40,000	$0	$0	$40,000	$40,000

ECAM Hardware Replacement

Department: 300 Water Works
Agency: 302 Commercial
Dept. Priority: 24

Project Manager: Vonder Muellen, P.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the replacement of obsolete hardware used for the Electronic Customer Account Management (ECAM) application.

Purpose: Replacement hardware would keep maintenance and support available and allow Greater Cincinnati Water Works (GCWW) to stay current with new operating system software versions to maintain/expand ECAM offerings, which are driven by customer demand.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jan-2009					$50,000		$50,000	Dec-2009
Other								$0	
Total City Funds		$0	$0	$0	$0	$50,000	$0	$50,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$50,000		$50,000	$50,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$50,000	$0	$50,000	$50,000

Grandin - Madison to Edwards

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 47

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would install 5,300 feet of 42" water main in Grandin Avenue from Convent to Edwards Road.

Purpose: The existing water system in this area cannot support additional development. Service area expansion projections require installation of new water mains for adequate service.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction	Jan-2009					$1,825,000	$1,825,000	$3,650,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,825,000	$1,825,000	$3,650,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,825,000	$1,825,000	$3,650,000	$3,650,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,825,000	$1,825,000	$3,650,000	$3,650,000

Montgomery-Galbraith to Cooper

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 52

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would install 8,900 feet of 42 inch water main in Montgomery Road from Galbraith Road to Cooper Road.

Purpose: The existing water system in this area cannot support additional development. Service area expansion projections require installation of new water mains for adequate service.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction	Jan-2009					$1,685,000	$1,685,000	$3,370,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,685,000	$1,685,000	$3,370,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,685,000	$1,685,000	$3,370,000	$3,370,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,685,000	$1,685,000	$3,370,000	$3,370,000

Madison/Ridge-Isabella to Duck Creek

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 54

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would install 4,700 feet of 48 inch water main in Madison Road from Isabella Avenue to Marburg Avenue and Ridge Road from Ibsen Avenue to Duck Creek Road.

Purpose: The existing water system in this area cannot support additional development. Service area expansion projections require installation of new water mains for adequate service.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction	Jan-2009					$1,240,000	$2,420,000	$3,660,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,240,000	$2,420,000	$3,660,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,240,000	$2,420,000	$3,660,000	$3,660,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,240,000	$2,420,000	$3,660,000	$3,660,000

Pete Rose Way/Eggleston-Broadway

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 62

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the installtion of a proposed 48 inch transmission water main, completing the new 48 inch supply line across the Central Business District.

Purpose: The purpose of this project is to complete the primary transmission water main to supply the Central service area including the Central Business District and the Northern Kentucky/Florence area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2009					$120,000		$120,000	Dec-2009
Land								$0	
Construction	Jan-2009					$1,000,000		$1,000,000	Dec-2009
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,120,000	$0	$1,120,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,120,000		$1,120,000	$1,120,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,120,000	$0	$1,120,000	$1,120,000

Madison Rd-Ridge to Whetsel

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 75

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would install 8,300 feet of 20 inch water main in Madison Road from Ridge Road to Whetsel Avenue.

Purpose: The existing water system in this area cannot support additional development. Service area expansion projections require installation of new water mains for adequate service.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2009					$1,630,000		$1,630,000	Dec-2009
Land								$0	
Construction								$0	
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,630,000	$0	$1,630,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,630,000		$1,630,000	$1,630,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,630,000	$0	$1,630,000	$1,630,000

Castle Drive Storage Tank

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 77

Project Manager: Schroeder, R.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would construct an elevated water storage tank along Castle Drive in the City of Mason.

Purpose: This project would provide additional water storage in the Mason distribution system to meet current and future water demands.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction	Jan-2009					$2,690,000		$2,690,000	Jun-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$2,690,000	$0	$2,690,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$2,690,000		$2,690,000	$2,690,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$2,690,000	$0	$2,690,000	$2,690,000

Protective Relays - Indoor Substation

Department: 300 Water Works | Project Manager: Tuck, R. | Neighborhood: To be determined.

Agency: 303 Supply | Fund: Water Works

Dept. Priority: 90 | Category: Equipment

Description: This project would include the replacement of electrical equipment panels containing feeder protection devices, energy usage measurement devices, switches and indicators for the Indoor Substation at the Richard Miller Treatment Plant.

Purpose: The purpose of this project is to upgrade electro-mechanical devices where failures are increasing and replacements are no longer available.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jan-2009					$88,000		$88,000	Dec-2009
Other								$0	
Total City Funds		$0	$0	$0	$0	$88,000	$0	$88,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$88,000		$88,000	$88,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$88,000	$0	$88,000	$88,000

Harrison/Wesselman-E River Rd 16 inch

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 93

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the installation of a proposed 16 inch transmission water main, completing high pressure back up supply to the Crosby and Blue Jay service areas.

Purpose: The purpose of this project is to supply transmission water from Western Hills to the Crosby and Blue Jay service areas as a second or back up supply.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2009					$30,000		$30,000	Dec-2009
Land								$0	
Construction	Jan-2009					$370,000		$370,000	Dec-2009
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$400,000	$0	$400,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$400,000		$400,000	$400,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$400,000	$0	$400,000	$400,000

Foster Pump Station

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 96

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the development of a proposed booster pump station with a suction tank in Warren County.

Purpose: The purpose of this project is to provide a booster supply and pressure to northern portions of Warren County and the Western Water and City of Mason contract areas (and future Lebanon supply).

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2009					$150,000		$150,000	Dec-2009
Land								$0	
Construction	Jan-2009					$850,000		$850,000	Dec-2009
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,000,000	$0	$1,000,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,000,000		$1,000,000	$1,000,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,000,000	$0	$1,000,000	$1,000,000

Mobile Computing/EMPAC Module

Department: 300 Water Works
Agency: 301 Administration
Dept. Priority: 100

Project Manager: Hellman, S.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would assist Greater Cincinnati Water Works in the implementation of a Mobile Computing solution, including the procurement of hardware, design, development and testing of software, tool control implementation, reliability centered maintenance, bill of materials, and a planning and scheduling management tool.

Purpose: The purpose of this project is to provide additional functionality that improves the efficiency of the organization.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment								$0	
Other	Jan-2009					$1,200,000	$1,500,000	$2,700,000	Dec-2010
Total City Funds		$0	$0	$0	$0	$1,200,000	$1,500,000	$2,700,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,200,000	$1,500,000	$2,700,000	$2,700,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,200,000	$1,500,000	$2,700,000	$2,700,000

Rebaffle Clearwell Influent

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 101

Project Manager: Metz, D.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would fund the design and construction of improved baffling in the clearwell influent.

Purpose: Rebaffling the clearwell influent would increase the contact time of the water to the chlorine as required by the Enhanced Surface Water Treatment Rule.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	May-2009					$75,000	$25,000	$100,000	Jan-2010
Land								$0	
Construction	Feb-2010						$900,000	$900,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$75,000	$925,000	$1,000,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$75,000	$925,000	$1,000,000	$1,000,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$75,000	$925,000	$1,000,000	$1,000,000

Filter to Waste Cycle

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 105

Project Manager: Kashinkunti, R.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would change filter valving to allow filter-to-waste capabilities.

Purpose: Short periods of high turbidity can occur during a filter run, usually at the beginning. Capability of filter to waste would help prevent water from entering into the distribution system.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2009					$200,000		$200,000	Jun-2009
Land								$0	
Construction	Apr-2009					$1,275,000		$1,275,000	Dec-2009
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$1,475,000	$0	$1,475,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$1,475,000		$1,475,000	$1,475,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$1,475,000	$0	$1,475,000	$1,475,000

PID/Hall Detectors

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 106

Project Manager: Selar, N.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: The project would provide funding for the replacement of two existing Photo Ionization Detctor (PID)/Hall detectors.

Purpose: The purpose of this project is to replace two existing PID/Hall detectors so that Water Works can maintain certification, comply with regulations related to volatile organic compounds and detect organic contamination of water.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2009					$35,000		$35,000	Sep-2009
Other								$0	
Total City Funds		$0	$0	$0	$0	$35,000	$0	$35,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$35,000		$35,000	$35,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$35,000	$0	$35,000	$35,000

Analytical Data System #2

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 111

Project Manager: Selar, N.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the replacement of the data system needed to operate all of the organics lab equipment. This equipment is essential to ensure compliance with several OHIO EPA regulations including trihalomethane, haloacetic acid and volatile organic compound regulations.

Purpose: The purpose of this project is to replace the data system which would allow Water Works to operate the equipment needed to perform a variety of organic analyses.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2009					$39,000		$39,000	Sep-2009
Other								$0	
Total City Funds		$0	$0	$0	$0	$39,000	$0	$39,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$39,000		$39,000	$39,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$39,000	$0	$39,000	$39,000

Effluent Piping Upgrade

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 112

Project Manager: Kashinkunti, R.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding to increase effluent piping sizes at the Bolton Plant.

Purpose: The purpose of this project is to supply additional water from the Bolton Plant by increasing the effluent piping sizes to accommodate growth in the area served by the Bolton Plant.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2009					$60,000		$60,000	Mar-2009
Land								$0	
Construction	Dec-2009					$700,000		$700,000	Jan-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$760,000	$0	$760,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds						$760,000		$760,000	$760,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$760,000	$0	$760,000	$760,000

Montgomery/Plainfield-Galbraith 48 inch

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 55

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the installtion of a proposed 48 inch water main as a discharge line from the Kennedy Station.

Purpose: The purpose of this project is to supply the Brecon service area and northeast corridor strengthening the Hamilton County and City of Cincinnati water supply, as well as the water supply in contracted areas in Warren County and the City of Mason.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$130,000	$130,000	Dec-2010
Land								$0	
Construction	Jan-2010						$1,800,000	$1,800,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$1,930,000	$1,930,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$1,930,000	$1,930,000	$1,930,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$1,930,000	$1,930,000	$1,930,000

Parsons/Martin-Eastern to EP 54 inch

Department: 300 Water Works | Project Manager: Schaefer, D. | Neighborhood: To be determined.

Agency: 306 Engineering | Fund: Water Works

Dept. Priority: 58 | Category: New Infrastructure

Description: This project would provide funding for the installtion of a proposed 54 inch transmission water main in a tunnel to supply the Eden Park reservoir from Eastern Avenue for the City of Cincinnati and the distribution system.

Purpose: The purpose of this project is to provide new transmission supply to Eden Park for the Central Service area, the Cincinnati Business District and the Northern Kentucky/Florence contract. This upgrade provides a two source supply to Eden Park improving water quantity & water quality, upgrading water capacity for the entire water system in the core areas of the City of Cincinnati.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$120,000	$120,000	Dec-2010
Land								$0	
Construction	Jan-2010						$1,250,000	$1,250,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$1,370,000	$1,370,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$1,370,000	$1,370,000	$1,370,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$1,370,000	$1,370,000	$1,370,000

Paddock/Laidlaw-Vine 30 inch

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 60

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the installation of a proposed 30 inch transmission water main in the Paddock/Laidlaw/Vine area.

Purpose: The purpose of this project is to supply water to the northern portion of the Eastern Hills service area through the I-75 corridor area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$110,000	$110,000	Dec-2010
Land								$0	
Construction	Jan-2010						$1,400,000	$1,400,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$1,510,000	$1,510,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$1,510,000	$1,510,000	$1,510,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$1,510,000	$1,510,000	$1,510,000

Ridge/Marburg-Montgomery 48 inch

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 61

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the installation of a proposed 48 inch water main, second feeder from Eastern Hills for central portions of the City of Cincinnati and northeast Hamilton County.

Purpose: The purpose of this project is to supply water from Eastern Hills to the Brecon service area. This vital main completes the second 48 inch feeder to supply the Kennedy Station facilities.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$60,000	$60,000	Dec-2010
Land								$0	
Construction	Jan-2010						$740,000	$740,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$800,000	$800,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$800,000	$800,000	$800,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$800,000	$800,000	$800,000

Cherry Grove Reservoir

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 76

Project Manager: Schroeder, R.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would design and construct a ground storage reservoir.

Purpose: The purpose of this project is to provide water storage that would enable Water Works to meet peak demands in the area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$200,000	$200,000	Jun-2010
Land								$0	
Construction	May-2010						$600,000	$600,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$800,000	$800,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$800,000	$800,000	$800,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$800,000	$800,000	$800,000

Chemical Feed Replacement - BP

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 83

Project Manager: Gollnitz, W.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would replace iron and soda ash feeders at the Bolton Plant.

Purpose: The purpose of this project would be to replace the worn-out iron and soda ash feeders at the Bolton Plant.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$50,000	$50,000	Dec-2010
Land								$0	
Construction	Jan-2010						$75,000	$75,000	Dec-2010
Equipment	Mar-2010						$100,000	$100,000	Dec-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$225,000	$225,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$225,000	$225,000	$225,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$225,000	$225,000	$225,000

Protective Relays - Western Hills

Department: 300 Water Works
Agency: 303 Supply
Dept. Priority: 91

Project Manager: Tuck, R.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would include the replacement of electrical equipment panels containing feeder protection devices, energy usage measurement devices, switches and indicators for the Western Hills Pump Station.

Purpose: The purpose of this project is to upgrade electro-mechanical devices where failures are increasing and replacements are no longer available.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jan-2010						$72,000	$72,000	Dec-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$72,000	$72,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$72,000	$72,000	$72,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$72,000	$72,000	$72,000

Hillside Ave/Maug-Anderson Ferry 16 inch

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 94

Project Manager: Schaefer, D.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for the installation of a proposed 16 inch water main to complete the loop in the Sayler Park neighborhood in the City of Cincinnati.

Purpose: Due to landslides and hillside stabilization, this water main will be reinstalled to complete the former loop of water to the Sayler Park area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$30,000	$30,000	Dec-2010
Land								$0	
Construction	Jan-2010						$280,000	$280,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$310,000	$310,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$310,000	$310,000	$310,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$310,000	$310,000	$310,000

Harrison/E River Rd-SR128 River Crossing

Department: 300 Water Works | Project Manager: Schaefer, D. | Neighborhood: To be determined.

Agency: 306 Engineering | Fund: Water Works

Dept. Priority: 95 | Category: New Infrastructure

Description: This project would provide funding for the installation of a proposed 12 inch water main, completing low pressure supply for local mains in Colerain and Whitewater township areas.

Purpose: The purpose of this project is to complete the low pressure service area supply across the Great Miami River within the Crosby Service area.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$60,000	$60,000	Dec-2010
Land								$0	
Construction	Mar-2010						$400,000	$400,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$460,000	$460,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$460,000	$460,000	$460,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$460,000	$460,000	$460,000

1.0 MG Quailwood Farms Storage Tank

Department: 300 Water Works
Agency: 306 Engineering
Dept. Priority: 97

Project Manager: Schroeder, R.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide funding for a proposed elevated tank for storage on the north zone of the City of Mason water system.

Purpose: The purpose of this project is to provide residential and fire water supply for the Mason north zone and emergency water supply in the region.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$163,000	$163,000	Dec-2010
Land								$0	
Construction	Jan-2010						$2,100,000	$2,100,000	Dec-2010
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$2,263,000	$2,263,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$2,263,000	$2,263,000	$2,263,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$2,263,000	$2,263,000	$2,263,000

Filter Aid Addition

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 103

Project Manager: Kashinkunti, R.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would provide for the installation of storage tanks and feed equipment allowing for the addition of a filter aid.

Purpose: A filter aid enhances filter operations by conditioning the water before the filtration process.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$75,000	$75,000	Dec-2010
Land								$0	
Construction								$0	
Equipment								$0	
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$75,000	$75,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$75,000	$75,000	$75,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$75,000	$75,000	$75,000

Continuous GC - FID Detector

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 107

Project Manager: Selar, N.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the replacement of existing gas chromatograph for continuous analysis of Ohio River water for organic contaminants.

Purpose: The purpose of this project is to replace the existing gas chromatograph that is more than ten years old, so that Water Works can continue to monitor the river for unknown organic contaminants.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2010						$35,000	$35,000	Sep-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$35,000	$35,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$35,000	$35,000	$35,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$35,000	$35,000	$35,000

GCMS with Autosampler

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 108

Project Manager: Selar, N.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the replacement of the existing gas chromatograph mass spectrometer for advanced analyses.

Purpose: The purpose of this projecd is to replace the existing gas chromatograph mass spectrometer that is more than ten years old, so that Water Works can continue to monitor exotic organic compounds including many that are regulated by the Ohio EPA.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2010						$95,000	$95,000	Sep-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$95,000	$95,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$95,000	$95,000	$95,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$95,000	$95,000	$95,000

Advanced Micro Monitor

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 109

Project Manager: Fromme, B.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the purchase and setup of equipment to monitor for microbial contaminants.

Purpose: The purpose of this project is to purchase equipment that would allow Greater Cincinnati Water Works to ensure that water is free from disease-causing microbes of both natural and terrorist origin.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2010						$100,000	$100,000	Sep-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$100,000	$100,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$100,000	$100,000	$100,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$100,000	$100,000	$100,000

Endocrine Distruptor Analysis

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 110

Project Manager: Selar, N.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would provide funding for the purchase and setup of equipment to monitor for endocrine disrupting chemicals.

Purpose: Purchasing this equipment would allow Greater Cincinnati Water Works to monitor for specific classes of compounds which may interfere with human hormones.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering								$0	
Land								$0	
Construction								$0	
Equipment	Jun-2010						$250,000	$250,000	Sep-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$250,000	$250,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$250,000	$250,000	$250,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$250,000	$250,000	$250,000

Recarbonation Upgrade - BP

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 117

Project Manager: Gollnitz, W.
Fund: Water Works
Category: Equipment

Neighborhood: To be determined.

Description: This project would construct an improved recarbonation system at the Bolton Plant.

Purpose: This project would eliminate split treatment of ground water (the bypassing of ground water to secondary clarifiers).

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$60,000	$60,000	Jun-2010
Land								$0	
Construction	Jun-2010						$440,000	$440,000	Dec-2011
Equipment	Jun-2010						$200,000	$200,000	Dec-2011
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$700,000	$700,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$700,000	$700,000	$700,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$700,000	$700,000	$700,000

Bolton Clearwell Baffling

Department: 300 Water Works
Agency: 305 Water Quality & Treatment
Dept. Priority: 118

Project Manager: Gollnitz, W.
Fund: Water Works
Category: New Infrastructure

Neighborhood: To be determined.

Description: This project would allow for the installation of baffles in existing clearwells at the Bolton Plant.

Purpose: This project would increase contact time and values for disinfection.

Phases	Start Date	2005	2006	2007	2008	2009	2010	2005-2010 Total	End Date
Engineering	Jan-2010						$50,000	$50,000	Mar-2010
Land								$0	
Construction	Apr-2010						$550,000	$550,000	Dec-2010
Equipment	Apr-2010						$150,000	$150,000	Dec-2010
Other								$0	
Total City Funds		$0	$0	$0	$0	$0	$750,000	$750,000	

Budget	Prior Year	2005	2006	2007	2008	2009	2010	2005-2010 Total	Project Total
City Funds							$750,000	$750,000	$750,000
Matching Funds								$0	$0
Total	$0	$0	$0	$0	$0	$0	$750,000	$750,000	$750,000