

Celina WTP - Drinking Water Solutions Grant Expenses

313.663.5550	Drinking Water Solutions Grant	PO#	INVOICE	SECTION TOTALS SPENT TO DATE
ENGINEERING SERVICES				
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$43,660.25	
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$10,560.34	
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$13,683.16	
12/9/2016	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$40,535.49	
1/1/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$23,107.13	
2/6/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$12,832.52	
3/2/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$1,441.31	
4/1/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$6,686.81	
5/8/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$16,107.27	
5/31/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$12,986.90	
7/14/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$10,697.84	
8/7/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$4,821.94	
9/11/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$14,231.86	
10/9/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG160564	\$4,943.46	
10/20/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$14,995.90	
12/5/2017	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$13,575.66	
1/2/2018	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$12,064.59	
2/8/2018	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$2,563.04	
4/3/2018	Hazen and Sawyer - Engineering Services, Water Facilities	RG170622	\$6,071.68	
				\$265,567.15
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OZONE REPLACEMENT PROJECT 2017				
2/21/2017	Woolace Electric - Ozone System Project	RG160586	\$20,138.00	
12/1/2016	Pinnacle Ozone Solutions, Inc. - Ozone Equipment & Install	RG160587	\$586,454.20	
1/10/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$291.34	
1/16/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$33.92	
1/16/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$91.44	
1/16/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$23.12	
1/18/2017	Dickman Supply Co. - Ozone System Conduit & Supplies		\$14.32	
1/18/2017	McMaster-Carr - Ozone Monitor Tubing & Fittings		\$1,080.69	
1/27/2017	McMaster-Carr - Ozone Cooling Water Line Insulation		\$86.03	
2/3/2017	EL Davis - Ozone System Pipe Installation		\$1,420.50	
2/27/2017	Clute Enterprises (O3 Solutions) - Roto Meters (4)	RG170141	\$4,273.52	
2/16/2017	Consolidated-Hunter - Cooling Water Lines Installed	RG170142	\$3,637.67	
	Hutton Engineering - SCADA Updates for Ozone System	RG180123	\$7,500.00	
				COMPLETED \$625,044.75
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UV/AOP SYSTEM INSTALLATION 2017				
7/25/2017	Calgon Corp - UV/AOP (Drawing Submission)	RG170441	\$56,163.80	
10/19/2017	Calgon Corp - UV/AOP (Equipment Delivery)	RG170441	\$196,573.30	
2/13/2018	Calgon Corp - UV/AOP (Startup & Safety Items)	RG170441	\$28,770.81	
9/19/2017	Woolace Electric - UV/AOP & GAC Bldg. Electric	RG170442	\$6,000.00	
11/15/2017	Woolace Electric - UV/AOP & GAC Bldg. Electric	RG170442	\$14,520.00	
10/16/2017	McMaster-Carr - Rubber Strips for Under Cabinets		\$57.02	
10/25/2017	Spring Creek - Concrete Pads Under UV/AOP Cabinets		\$150.00	
10/25/2017	McMaster-Carr - GAC Effluent Vent Pipe, UV/AOP Update		\$144.45	
10/25/2017	Fastenal - UV/AOP Bolts, Nuts, & Driver		\$1,306.89	
10/30/2017	Thees Machine - SS Pipe Repair		\$25.00	
11/1/2017	USA Blue-Book - UV/AOP System Gaskets		\$55.13	
11/3/2017	Fastenal - UV/AOP Bolts		\$78.29	
11/7/2017	EL Davis Welding - Spool Pieces & Taps	RG170670	\$4,470.35	
11/7/2017	McMaster-Carr - UV/AOP System UV254 Meter Fittings		\$251.48	
11/15/2017	McMaster-Carr - UV/AOP System UV254 Meter Fittings		\$740.59	
11/15/2017	McMaster-Carr - 1" drill bit & tap		\$249.50	
11/15/2017	Grand Lake Builders - H2O2 Pump Stand Block		\$96.73	
11/15/2017	Grand Lake Builders - H2O2 Pump Stand Block Sander		\$18.50	
11/17/2017	EL Davis Welding - Metal for Electric Conduit Rack		\$37.00	
12/12/2017	APA Inc. - Rotork IQT100 Actuators (4) & Remote Stations (2)	RG170505	\$26,750.00	
9/7/2017	Gilco Engineering Sales - Flow Meters	RG170510	\$2,367.36	
12/13/2017	Hutton Engineering - SCADA Updates	RG170756	\$3,450.39	
1/29/2018	Hutton Engineering - SCADA Updates	RG170756	\$3,620.00	
11/28/2017	New Pig - Spill Containment	RG170674	\$547.00	
12/1/2017	New Pig - Spill Containment	RG170674	\$3,719.00	
12/4/2017	USA BlueBook - Flow Meters	RG170673	\$3,780.00	
				COMPLETED \$353,942.59

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CLARIFIER REPLACEMENT PILOT TESTING 2017-2018				
12/18/2017	EL Davis Welding - MORIF Pilot Unit Construction	RG170713	\$10,782.21	
1/9/2018	EL Davis Welding - MORIF Pilot Unit Construction	RG170713	\$9,035.82	
12/11/2017	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$3,614.76	
12/12/2017	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$41.42	
1/2/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$171.67	
1/16/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$1,152.79	
1/18/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$26.79	
1/18/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$83.49	
1/22/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$37.55	
1/23/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$186.15	
1/29/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$395.53	
1/30/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$118.80	
3/5/2018	McMaster-Carr - Plumbing Fittings for Pilot Unit	RG170720	\$68.93	
12/11/2017	Katharos Scientific, LLC - Pilot Testing Equipment	RG170740	\$13,303.00	
1/10/2018	Katharos Scientific, LLC - Consulting Agreement	RG170712	\$25,000.00	
2/27/2018	Katharos Scientific, LLC - Engineering of MORIF Units	RG180186	\$25,000.00	
12/11/2017	Dickman Supply - Pilot Pipe Hangers		\$217.58	
12/15/2017	USA BlueBook - Static Mixer & Chemical Feed Fittings		\$284.66	
1/9/2018	Menards - Wood for Pilot Decking		\$214.35	
1/10/2018	Celina Ace Hardware - Injector Plugs for Nozzles		\$30.52	
1/10/2018	Menards - Wood for Pilot Decking		\$14.76	
1/10/2018	Menards - Wood for Pilot Decking & Plumbing Fittings		\$64.34	
1/25/2018	Thees Machine - Nozzle Drilling		\$96.00	
2/16/2018	EL Davis Welding - MORIF Pilot Unit Brackets & Partition		\$1,628.63	
				\$91,769.75
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MISC. WTP REPAIR COST				
1/23/2018	APA Inc. - Rotork IQS20 Actuators, Valves, & Spools (2) 1952 Backwash Valve Replacement	RG170637	\$29,964.00	
12/11/2017	Molecular Repair Systems - Settling Basin Concrete Tank Waterproofing	RG170675	\$11,611.57	
	Electro Controls - Sludge Pump Control Panel	RG180185	\$9,452.00	
3/13/2018	United Precast Industries, LLC - Sludge Pit Pump Rails	RG180199	\$5,176.00	
				\$56,203.57

TOTAL WATER SOLUTIONS GRANT **\$8,000,000.00**

TOTAL SPENT TO DATE **\$1,392,527.81**

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CURRENT PROJECTS 2018-2019				
	1974 Clarifier Replacement - MORIF DAF Units (4) and Equipment			
	1974 Bldg Roof Replacement (2 Levels)			
	1974 Raw Water Piping Removal as needed			
	1974 Lime Silos & 3rd Floor Removed			
	1974 Backwash Water Holding Tank - Pump Station & Phosphate Feed			
	1974 Raw Water Pump (2) Replacement			
	Lake Water Sludge Handling Facility Addition			
	Lime Lagoon Upgrades & Fence Replacement			
				\$0.00

DATE	DESCRIPTION	COST	TOTAL COST
FIRST WTP (West Touvelle St.)			\$50,000
1/1/1884	Water Pumping Station, Wells, & Water Mains	\$50,000	
5/1/1920	Added Two Additional Wells (S. of Beaver St. / W. of RR)	?	
Water Tower Construction (CBI)			\$4,146,068
5/1/1930	Chicago Bridge & Iron (CBI) - 500,000 gal. Touvelle St. Tower	?	
6/1/1962	Chicago Bridge & Iron (CBI) - 250,000 gal. EJ Tower	?	
5/1/2005	Landmark Structures - 1.5 MG Summit Street Tower	\$1,776,798	
5/23/2014	John Wolfram & Associates and Hutton Engineering Tower SCADA Control Programming	\$6,040	
5/23/2014	Wollace Electric Tower SCADA Control Wiring	\$11,600	
5/1/2016	Landmark Structures - 1.0 MG Industrial Park Tower	\$2,351,631	
WTP CONSTRUCTION			\$500,000
5/12/1952	FP&S Engineering & Construction of SWTP	\$500,000	
WTP EXPANSION (1.5 MGD to 3.0 MGD)			\$1,650,000
5/27/1974	FP&S Engineering & Construction of SWTP	\$1,650,000	
WTP SCREEN HOUSE			\$143,860
1/1/2008	Fanning/Howey Engineering of Screen House Replacement	\$5,000	
12/1/2008	Shinn Brothers Inc. Started Construction of a new Screen House		
6/1/2009	Shinn Brothers Inc. Completed Construction of Screen House	\$130,000	
12/2/2015	Celina WTP Staff 1952 KMnO4 Feeder Replaced	\$8,860	
PRE-TREATMENT - CLARIFIERS			\$46,615
12/21/1998	Kirk Bros Co. Inc. 16" Clarifier Piping	\$9,675	
7/1/2015	Celina WTP Staff 1974 Mixers Replaced (4)	\$29,460	
4/26/2016	Celina WTP Staff 1952 KMnO4 Feeder Replaced	\$7,480	
OZONE SYSTEM (Taste & Odor Removal)			\$2,979,569
12/1/1990	Bollyky & Associates Preliminary Testing and Pilot Testing	\$64,923	
	Engineering Design Modifications and Specs	\$75,000	
	Engineering Bidding and Review	\$22,000	
6/1/1994	Indiana Construction Ozone System Installation / Power Generator	\$2,145,000	
9/10/2001	Ozonla North America Onsite Tech Support and Repair	\$4,000	
	Power Supply Boards	\$4,851	
8/12/2003	Ozonla North America Onsite Tech Support and Repair	\$4,850	
	Transformers	\$18,900	
1/12/2003	Ozone Water Systems Ozone Monitor Repair & Calibration	\$9,000	
	Ozone System Evaluation	\$6,000	
2/1/2016	Pinnacle Ozone Solutions, Celina WTP Staff, & Others 1995 Ozone Production Units Replaced	\$625,045	Water Solutions Grant
LIME / SODA ASH SOFTENING			\$341,457
6/1/2011	Celina WTP Staff Flocculator Drive Units Replaced (2)	\$15,000	
6/1/2011	Celina WTP Staff 1974 Recarbonation Basin Covered	\$13,000	
	1952 Soda Ash Feeder Replaced (Davis Welding)	\$11,800	
6/1/2012	Celina WTP Staff Settling Basin Sludge Collectors Chain & Flights Replaced	\$6,160	

6/1/2013	Celina WTP Staff Settling Basin Sludge Collector Drives Replaced (4)	\$26,610	
6/1/2014	Celina WTP Staff Burnett Lime Co. - Tank & Bldg. Woolace Electric - Electric Fortman Foam - Tank Insulation Installed Liquid Lime Bldg & System	\$207,600 \$6,250 \$4,457 \$28,570	
4/1/2015	Celina WTP Staff 1952 Rapid Mixers Replaced (2)	\$22,010	
FILTER BEDS AND AIR SCOUR SYSTEM		\$325,650	
7/1/1998	Fanning / Howey Assoc., Inc. Filter Bed Upgrade (1 & 2)	\$17,500	
1/21/1999	Kirk Bros Co. Inc. Filter Bed Upgrade (1 & 2)	\$153,650	
12/9/1999	Fanning / Howey Assoc., Inc. Filter Bed Upgrade (3 & 4)	\$17,500	
5/31/2000	Kirk Bros Co. Inc. Filter Bed Upgrade (3 & 4)	\$137,000	
3/1/2012	Celina WTP Staff 1992 Turbidity Meters Replaced (HACH)	\$10,135	
5/1/2008	Celina WTP Staff 16 Sand Filter Valves and Controllers Replaced	\$125,000	
7/1/2016	Ortman Drilling & Celina WTP Staff 1952 N. Sand Filter Backwash Pump Replaced	\$34,880	
9/5/2017	Ortman Drilling & Celina WTP Staff 1952 S. Sand Filter Backwash Pump Replaced	\$37,760	
1/23/2018	APA 1952 Sand Filter Backwash Valves Replaced & Accuated	\$29,965	Water Solutions Grant
WTP GAC Facility Design & Construction		\$7,246,789	
3/1/2006	B&B Demolition Hired to Demo Power Plant	\$0	
8/6/2006	Floyde Brown / Metcalf & Eddy Engineering & Design	\$484,650	
1/1/2007	B&B Demolition Power Plant Demolition Completed	\$20,000	
6/1/2008	Peterson Construction Company GAC Facility Construction Completed	\$6,281,928	
6/1/2008	IOS / CMI GAC Facility Office Supplies	\$80,600	
8/10/2017	Dickman Supply & Wollace Electric GAC Facility Light Replacement	\$10,705	
11/1/2017	Calgon Corp. UV Systems, Celina WTP Staff, & Others Installed UV/AOP System Global Pumps Mobile 4" Trash Pump for Carbon Exchanges (1/2 w/ WWTP)	\$353,945 \$14,960	Water Solutions Grant
HIGH SERVICE PUMPS & MOTOR CONTROL CENTER		\$263,070	
1/25/2000	Fanning / Howey Assoc., Inc. Motor Control Center	\$12,395	
4/14/2000	Buschur Electric Inc. Motor Control Center	\$79,000	
11/21/2002	Buschur Electric Inc. Added Soft Starters	\$9,800	
12/1/2007	Ortman Water Services & City WTP Staff Replaced 1974 High Service Pump (2,100 gpm)	\$36,500	
6/1/2011	Ortman Water Services & Wollace Electric Replaced 1952 High Service Pump (700 gpm to 1,100 gpm)	\$23,800	
7/1/2015	Ortman Water Services & Wollace Electric & Electro Controls Replaced 1952 High Service Pump (1,400 gpm to 2,100 gpm) Ortman Water Services & Wollace Electric & Electro Controls Replace 1,100 gpm to 2,100 gpm & VFD & Valves	\$53,145 \$48,430	
SCADA CONTROL SYSTEM		\$6,490	
3/29/2001	John Wolfram & Associates and Hutton Engineering SCADA Hardware & Software	\$4,689	
3/29/2001	American Computer Center SCADA Computer System	\$1,801	
7/1/2014	John Wolfram & Associates and Hutton Engineering SCADA Hardware & Software	\$11,600	
WTP ENGINEERING STUDIES & OEPA FINES		\$1,154,820	

7/24/2001	BBS Corporation		
	CWTP Engineering Study	\$19,500	
5/15/2003	OEPA Findings & Orders		
	Fines	\$10,000	
5/6/2003	Current Energy Solutions		
	Energy Conservations Project	\$28,000	
5/6/2003	US Filter Kruger Products		
	Actiflo Pilot	\$9,700	
8/28/2003	CDG Technology Inc.		
	Chlorine Dioxide Testing	\$1,200	
4/14/2004	WesTech Engineering Inc. / Orica Watercare		
	MIEX Pilot & Detailed Report	\$30,000	
1/20/2005	Floyde Brown / Metcalf & Eddy		
	CWTP Engineering Study	\$135,000	
	OEPA Findings & Orders Negotiations		
1/6/2006	Floyde Brown / Metcalf & Eddy / Calgon Carbon		
	Pilot tested GAC for TOC removal	\$88,350	
2016 - Present	Hazen & Sawyer		
	WTP Engineering Services (Cost thru Current Contract)	\$741,300	Water Solutions Grant
	- Ozone System Upgrades		
	- UV/AOP System Installation		
	- Clarifier Replacement & Sludge Handling Project		
2017 - Present	Celina WTP Staff & Others		
	MORIF (DAF) Unit Process Pilot Testing	\$91,770	Water Solutions Grant
	Tri-Tech Engineering		
	MORIF (DAF) Unit Process Engineering	?	Water Solutions Grant

GROUND WATER EXPLORATION & TESTING			\$252,291
3/3/2003	Jones & Henry Engineers, LTD		
	Fracture Trace Analysis	\$19,464	
	Teays River Water Exploration	\$10,950	
4/3/2003	Heffner Investments, LTD		
	Test Well Land Agreement	\$5,000	
5/3/2003	Reynolds Well Drilling Inc.		
	Construction of Three Wells @ Heffner Property	\$65,000	
2/3/2003	BBS Corporation		
	Liaison Services to OEPA	\$10,600	
2/3/2003	Reiss Environmental, Inc.		
	Phase I - Groundwater Quality Evaluation	\$17,000	
	Phase II - Membrane Pilot Protocols to OEPA	\$7,500	
	Phase III - Teays River Water Evaluation & Protocols	\$7,500	
1/1/2004	Howick Family		
	Test Well Land Agreement	\$5,000	
2/12/2004	Ortman Water Services		
	Construction of Three Wells @ Howick Property	\$68,000	
12/1/2004	Shinn Bros, Inc.		
	Stone Removal from Well Sites and Hauling to Water Tower	\$11,777	
5/23/2014	Ortman Water Services		
	Construction of Four Wells @ SR 703 Property	\$24,500	

MISC. WTP PROJECTS			\$293,963
1/6/2006	Davis & Newcomer Elevator Co., Inc.		
	Replaced Shaft & Seals	\$6,068	
6/1/2011	Celina Glass		
	1974 Windows Replaced	\$28,000	
5/1/2012	Celina WTP Staff		
	1952 / 1974 Light Fixture Rplacement	\$10,000	
6/1/2012	Celina WTP Staff		
	Added Bulk Water Tank Filling Station	\$2,100	
6/1/2012	Rays Refrigeration		
	Replaced Lab / Office HVAC Replaced	\$13,960	
7/1/2012	Cotterman Roofing		
	1952 Bldg. Roof Replaced	\$37,120	
4/1/2013	Rays Refrigeration		
	1952 Bldg. Boiler Replaced	\$37,120	
7/1/2013	Springer Tree Service		
	Lagoon Trees Removed	\$4,400	
6/1/2016	Moeller Door & Window		
	1952 & 1974 Doors & Windows Replaced	\$24,450	
4/6/2017	Moeller Door & Window		
	1952 & 1974 Doors & Windows Replaced	\$11,335	
2/28/2017	Ohio CAT & Woolace Electric		
	CAT Generator Replacement	\$119,410	