INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We Protect Hoosiers and Our Environment.
100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Michael R. Pence
Governor

Thomas W. Easterly
Commissioner

April 4, 2014

65-40 LN
Bordon Tri County
7910 Navilleton Road
PO Box 40
Floyds Knobs, IN 47119

Dear Board of Trustees:

Re: Regional District Plan

Pursuant to Indiana Code (IC) 13-26, and as required in the Order forming the Regional District (District), a district plan (Plan) was required to be submitted by the District to the Indiana Department of Environmental Management (IDEM).

IDEM has received and reviewed the District Plan and determined the Plan to be complete. No further action regarding the Plan is required at this time. Please note that the District should send updates to the Plan to IDEM as they occur.

If you have any questions, please feel free to contact me at 800-451-6027, extension (3-0476) or at lnewlon@idem.in.gov.

Sincerely,

Lynne Newlon

Lynne Newlon
Regional District Coordinator
Indiana Department of Environmental Management

BORDEN TRI-COUNTY

BTC

WATER

DISTRICT PLAN

2013

Board of Trustees: John Eurton, John Hagest, Steve Burnett, Ruth Sparks, Glenn Smith, Rick Koetter, Rudy Cook, Jerry Hein, Les Wright, Manager: Daryl Naville, Compliance Director: Pat Kelly, Attorney: Allen Morris, Engineer: Jonathan McCoy

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BTC DISTRICT PLAN

INTRODUCTION

The Borden Tri-County Regional Water District (BTC) serves over 3,800 customers in Clark, Floyd & Washington counties in southeastern Indiana. The District has been in operation since the early 1970's.

BTC realizes the importance of having and maintaining a strategic plan to meet the challenges facing the District today and into the future. These challenges include providing safe, quality drinking water and customer service at a fair price to the community, continuing to meet the demands of a growing community while meeting strict water quality standards, finding better, cost-effective ways to use available water resources while conserving water and maintaining a skilled and motivated team to manage and operate the system.

In 2012, BTC purchased 238,517,000 gallons of water from Indiana-American Water Co. and treated 96,822,400 gallons of water from their surface water reservoir.

BTC owns and operates hundreds of miles of waterline due to the rural nature of their service area. They also incorporate booster pumping stations and storage tanks throughout the system in order to efficiently provide the water supply that's demanded by customers on the system. A system map is included at the back of this report.

BTC employs 8 full-time people to handle the day-to-day operations, the positions include a General Manager, Compliance Director, Office Manager, Office Assistant, Plant Operator, Distribution Supervisor, and Distribution Assistant & Meter Reader.

BTC has a Board of Trustees that meet every month to review and discuss the operations of the system. BTC's Manager, Daryl Naville, gives a thorough report each month regarding the operation of the system and brings recommendations for repairs, improvements and future projects before the Trustees for their review & approval. BTC also employs a licensed attorney and Professional Engineer on an as-needed basis to handle relevant projects & issues that need attention.

DISTRICT GOALS

Regulatory Compliance

To continue to meet the federal & state water quality standards developed from the Safe Drinking Water Act. This includes compliance with the Long Term 1 & 2 Enhanced Surface Water Treatment Rules, Filter Backwash Recycle Rule and Stage 2 Disinfectants/Disinfection By-Products Rule. BTC water will continue to strive to provide safe & quality drinking water to its customers through monitoring, reporting, performing treatment techniques, record-keeping and providing Public Notices as required by IDEM.

Natural Resources Management

To continue to ensure adequate water supply for existing and future customer demands. To continue to assess the quality of water sources and identify contaminant risks. To continue to promote conservation of water. BTC Water has recently developed a Watershed Protection Plan for their water supply reservoir that outlines potential contaminant risks and ways to reduce those risks. The plan is available for viewing on the website (bordentc.com).

Infrastructure Management

To continue to assess the conditions of the existing system infrastructure, identify areas that need improvements, plan for improvements/expansion and implement the improvements. To develop and maintain a user-friendly GIS mapping system to better manage all existing system assets. To continue to maintain and improve the security of the system assets. BTC Water is planning to implement an Automatic Meter-Reading System over the next several years.

Personnel Management

To continue to promote good communication and clear directives for all staff & employees so system operations remain efficient and dependable. To continue to receive continuing education on technology & management of water system operations. To continue to perform annual performance and compensation reviews. To continue to review employee policies. To create a District Succession Plan.

Financial Management

To continue to develop & approve annual operating budgets. To continue to plan & budget for future system projects and improvements. To continue to manage resources in a way that avoids having to borrow funds. To continue to evaluate and provide appropriate levels of risk management.

Customer Service

To continue to provide good communication to all customers and respond to concerns in an efficient and professional manner. To continue to provide and promote a service-oriented atmosphere and culture that allows customers to have a confidence and trust in the District that will continue to grow & strengthen in the future. To always provide safe drinking water at a fair & reasonable cost.

Assessment & Projection of Purchased and Treated Water Costs

Borden Tri-County Regional Water District

Indiana American – Projected Water Cost for 2013 = $2.67 per thousand gallon of water purchased.

Assesment of Source Water cost increase for year 2012.

Indiana American – Purchased Water Cost 2012

1. **Purchased water = 238,517,000 million gallon**
2. **Cost of purchased water = $ 621,423.46 dollars**
3. **Cost per thousand gallon = $ 2.61**

Purchased Water	**= $ 575,078.77**
Electrical & Maintenance	**= $ 46,334.69**
Total Cost	**= $ 621,423.46**

Rate Increases by Indiana American from Years 2010 - 2012

1. **32.9% rate increase was effective April 2010**
2. **Results of rate increase by Ind. American for 2010 = $ 64,113**
3. **Rate increase Ind. Amer. 6/30/2012 – 1% = 6 months $ 3,150**
4. **Rate increase DSIC - I.A. 2.12% - 12/2012 annual inc. $ 13,174**
5. **Fire Surcharge added 12/2012 – 125.27 per site (month) $ 3,006**
6. **2013 increase in purchased water cost from 2012 = $ 22,330**

Indiana American - Purchased Water Cost for Year 2011

1. **I.A. Puchased Water Cost = $ 510,708.62**
2. **Electric & Maintenance Cost = $ 32,463.00**
3. **Total Cost = $ 543,171.62**
4. **Divide by gallons purchased = 209,225,400**
5. **Cost per thousand gallon 2011 = $2.60**

BTC Projected Treated Water Cost for 2013 = $ 2.22 per thousand gallon of water treated.

BTC Treated Water Cost 2012

1. **Treated water = 96,822,400 million gallons**
2. **Cost to treat water = $212,023.83**
3. **Cost per thousand gal. = $ 2.19**

Labor	=	**$119,744.12**
Chemical Treatment	=	**$ 44,253.61**
Maintenance & Elect.		**$ 48,026.17**
Total Cost	=	**$ 212,023.83**

BTC Treated Water Projected Cost for 2011

1. **Treated Water = 85,500,000 million gallons**
2. **Cost to treat water = $184,551.62**

3. **Cost per thousand gal. = $ 2.16**

Labor	=	**$114,267.00**
Chemical Treatment	=	**$ 54,284.62**
Maintenance	=	**$ 16,000.00**
Total Cost	=	**$ 184,551.62**

Budget Analysis

Printed 5/15/2012	Borden Tri-County Regional Water District			
	Budget Analysis			
	Reporting 12/1/2011 To 12/31/2011			
	YEAR	YEAR	YEAR	Annual Projected
	YTD 2010	YTD 2011	YTD 2012	Budget 2013 of 2%
INCOME				
Metered Sales	411.16	-4.04	-22.39	0.00
Metered Sales Reside	1,498,099.31	1,580,504.89	1,596,346.52	1,628,273.00
FPS Fire Protection	5,490.00	5,770.50	6,034.50	6,155.19
Metered Sales Commer	117,123.99	126,940.89	142,226.62	145,071.15
Sales For Resale	31,745.35	29,501.71	70,096.46	51,500.00
Forfeited Disc. Pena	12,286.74	12,872.88	12,185.67	12,429.38
Rehooks	7,583.31	7,675.15	9,677.96	9,871.52
Antennae Site Rental	34,500.00	34,500.00	34,500.00	34,500.00
Antennae Site Rental	19,948.51	23,374.65	28,126.10	28,126.10
Name Transfer Fee	1,830.00	1,570.00	1,770.00	1,805.40
Interest Income	10,309.17	6,228.93	3,237.26	3,302.01
Misc Revenue	1,324.57	17,242.58	-747.70	28,000.00
TOTAL INCOME	1,740,652.11	1,846,178.14	1,903,431.00	1,949,033.75
EXPENSES				
Purchased Water	451,448.26	510,708.62	575,078.77	586,580.35
Power Purchased Pump	62,986.08	67,180.52	71,673.09	73,106.55
Chemicals	509.05	0.00	4,185.55	4,269.26
Maint of Pumping Equ	8,811.91	6,130.31	23,990.21	24,470.00
Chemical Treatment	46,284.62	61,284.06	38,598.86	39,370.84
Labor Expense Treatm	113,136.24	117,381.56	119,744.12	122,139.00
Misc. expenses Treat	801.08	868.94	1,469.20	1,498.58
Distribution OP Supe	87,550.10	84,275.84	71,665.86	73,099.18
Distrib. Storage Fac	2,212.60	517.91	14,891.25	15,189.08
Dist. Line Expenses	1,707.86	1,282.60	2,052.10	2,093.14
Dist. Misc Expense	21,745.24	8,716.87	5,950.80	6,069.82
Dist Maintenance of	49,560.98	37,984.89	54,888.32	55,986.09
Maintenance Service	258.67	519.19	-1,594.68	600.00
Dist Maintenance Mis	5,118.90	6,451.02	2,993.24	3,053.10
Meter Reading Expens	40,571.32	41,708.64	25,578.11	26,089.67
Customer Records & C	12,857.22	12,796.27	14,544.63	14,835.52
Computer Expenses	9,882.57	14,208.82	6,247.78	6,372.74
Misc Cust Accts Expe	589.75	734.65	420.00	428.40
Administration Salar	155,056.26	150,191.40	154,616.89	157,709.23
Office Supplies & Ot	2,744.57	2,516.44	1,512.60	1,542.85
Telephone Services E	7,531.70	7,384.34	7,163.94	7,307.22
Comm Equip Expenses	699.96	0.00	0.00	0.00
Outside Services Emp	13,475.76	15,504.00	11,113.48	39,335.75
Water Analysis Fees	9,669.50	6,452.50	9,102.00	11,284.00

Accounting Fees	2,750.00	4,500.00	4,000.00	5,500.00
Attorney Fees	5,669.76	6,381.85	3,240.10	3,304.90
All Other Bonds	0.00	379.00	579.00	590.58
Property Insurance	13,729.00	14,435.00	15,002.00	15,302.04
Business Auto Insura	4,732.00	4,732.00	6,874.00	7,011.48
Insurance Liability	8,578.00	10,393.00	8,597.00	8,768.94
Workers Compensation	5,872.56	5,608.00	6,268.00	6,393.36
All Other Bonds	3,167.00	1,045.00	1,398.00	1,425.96
Medical Ins Company	57,620.48	62,476.10	60,738.10	64,952.86
401K-Company	15,919.63	15,548.11	14,564.70	14,855.99
Retirement Fund Mgmt	1,980.29	1,980.29	1,965.80	2,005.12
Regulatory Commissio	0.00	2,987.00	0.00	3,010.00
Uniform Rental	5,590.59	5,781.68	5,168.30	5,271.67
Miscellaneous Genera	7,013.65	8,134.80	6,228.77	6,353.35
Payroll Taxes	30,357.64	29,804.06	29,637.75	30,230.51
Transportation Expen	29,085.43	38,631.01	31,182.27	33,413.22
Utilities	4,831.93	4,944.93	4,512.44	4,602.69
Maintenance General	671.99	3,361.42	5,819.55	5,934.94
Depreciation Expense	226,289.27	234,696.73	233,517.38	234,269.31
Unemployment Taxes W	1,420.58	8,138.68	5,821.33	5,937.76
Interest Paid to FHA	16,972.56	12,875.67	8,637.81	6,098.22
TOTAL EXPENSES	1,547,462.56	1,631,633.72	1,669,888.42	1,737,663.27
NET INCOME OR (LOSS)	193,189.55	214,544.42	233,542.58	211,370.48

Project Inventory & Projections

PROJECTS COMPLETED

1. Painting of tank #6 South Skyline
2. Website Built and Upgraded www.geocities.com/btcwater/
3. Dam Inspection for Muddy Fork Structure #1 2008
4. Property around Packwood Branch Lake Surveyed 2008
5. Coffman Rd. 12" main extension 6800' Completed 2008
6. Property purchase from town, lake buffer area 2009
7. 600,000 gal Martinsburg Standpipe Completed 2010
8. Purchased 45 acres north side of lake, Ruddell property 2011
9. Purchased .3 acres #6 water tower. Tank is now on btc prop. 2011
10. Newcut Rd. inter-connect 1,200 ft 4 " main 2012
11. Hwy 60 @ Starhill rd. 1,400 ft 8" pvc main 2013

PROJECTIONS FOR FUTURE IMPROVEMENTS

1. 5 - Main line connections to help with water flow/service interruptions due to leaks.
2. GIS & GPS System Intergration
3. Baffles for clearwell @ treatment plant
4. Digitized Mapping
5. Mobile generator for booster stations electric back-up
6. Install fire hydrants & valves
7. ½ mile line upgrade Campion Rd. 3" to 8"
8. .6 mile upgrade St. Johns Rd. 6" to 12" pvc
9. 1 mile line upgrade Scottsville Rd. 6" to 12" pvc

NEW DEVELOPMENT ON BTC WATER SYSTEM

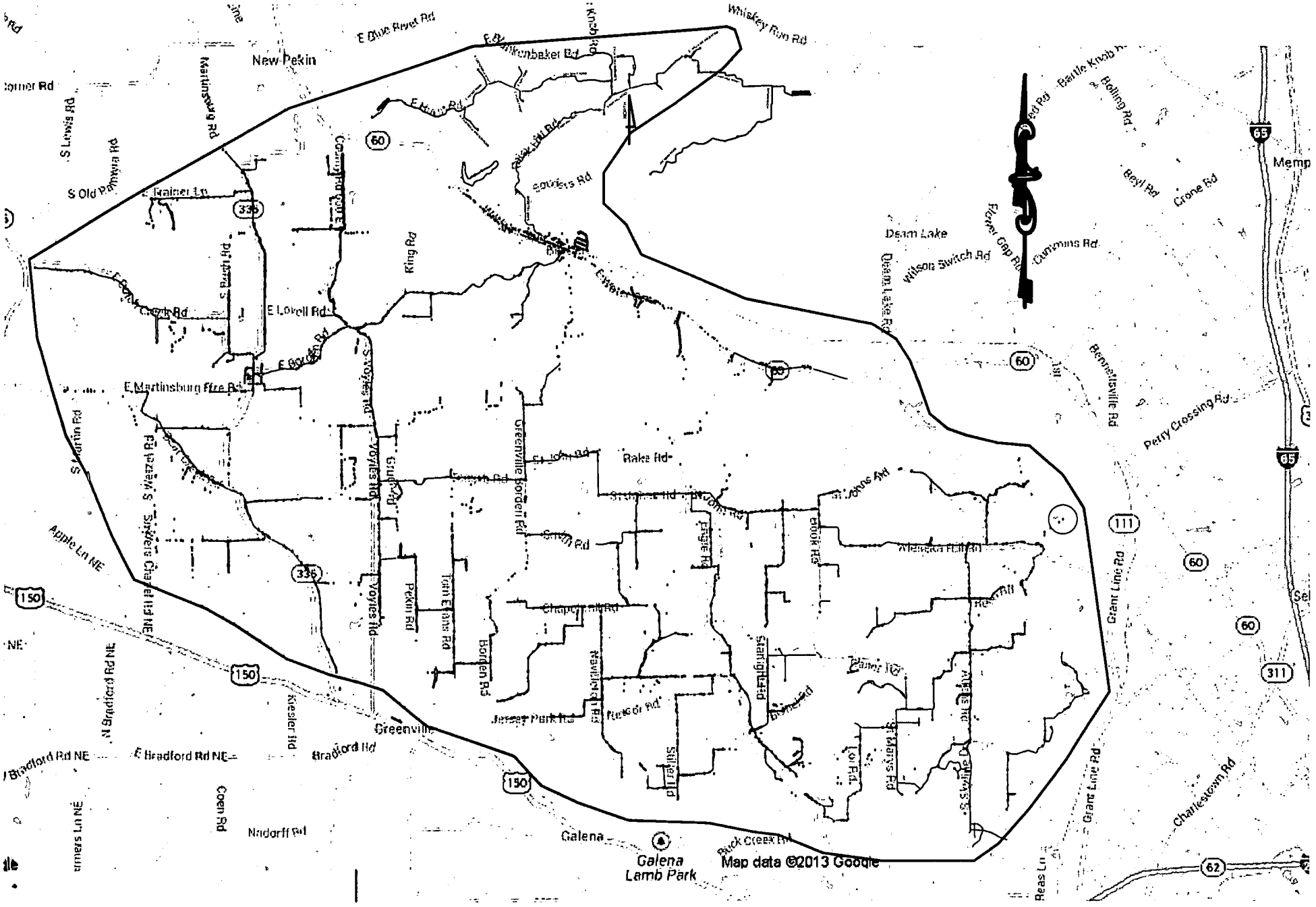
1. Baumann Bluff Phase 1	2001
2. Woods of Skyline	2002
3. Orchards of Moser Knob	2002
4. Shadow Lake	2002
5. Stawberry Meadows	2003
6. Huntington Creek	2004
7. Peach Orchard Estates	2006

8. Dutch Park 2006 2 lots sold never materialized
9. Baumann Bluff phase 2 2007
10. No new Development for 2008, 2009, 2010, 2011, 2012

Main Line Extensions to system		Year	Home Developer BTC Church Bussiness
1. Head Rd. for Clark Farm,	1,200 ft 4" pvc	2006	Develop
2. Ballou Rd. for Speth Farm,	460 ft 6" pvc	2007	Develop
3. Foskuhl Rd. for Gibson,	820 ft 4" pvc	2007	Home
4. Coffman Rd to Booster #3,	6,680 ft 12" pvc	2008	BTC
5. Rake Rd for Huber Winery,	2,050 ft 6" pvc	2008	Bussiness
6. Hanka Rd for Barmore,	920 ft 6" pvc	2009	Home
7. St Mary's Church	2,080 ft 8" pvc	2010	Church
8. Christian Church Borden	320 ft 6" pvc	2010	Church
9. Daisy Hill to Bartel Knob	3,700 ft 6" pvc	2011	Home
10. Hilltop Rd.	3,800 ft 4" pvc	2011	Home
11. Newcut Rd inter-connect	1,200 ft 4" pvc	2012	BTC
12. Starhill Rd – Upgrade	1,400 ft 8" pvc	2013	BTC

BTC20YR		1/1/2008					
			$1,220,000	$ 1	YEARLY		
INTEREST RATE	1.05	ASSUMPTIONS:	RATE INCREASE	0.00%	CASH FLOW		
CONSTRUCT. INFLATION	1.05	PER YR	INCREASE IN EXPS	4%	$ 250,000		
PRESENT CASH 890,000		$ 708,600					
		FUTURE SAVINGS	PRESENT DOLLAR	FUTURE DOLLAR	FUTURE	BALANCE OF	
	YEAR	VALUE	COST	COST	EARNINGS	SAVINGS	
2 New Trucks	2009	793,335	40,000	40,000		753,335	Complete
Hydrants, Valves, Generator	2009	753,335	20,000	20,000		733,335	Complete
Property Martinsburg Tank	2009	733,335	19,250	19,250	201,000	915,085	Complete
Purchase 21 acres around lake	2009	915,085	24,750	24,750		890,335	Complete
Main Upgrades	2010	890,335	30,000	30,000	300,000	1,160,335	Complete
Martinsburg .6 mil Standpipe	2010	1,160,335	500,000	550,000		610,335	Complete
Mapping	2010	610,335	18,000	17,000		593,335	Complete
Purchase 45 acres (Ruddell)	2011	593,335	146,000	146,000	321,000	768,335	Complete
New Hydrants & Valves	2011	768,335	8,000	8,000		760,335	Complete
Creek Crossings -3 new install	2011	760,335	32,000	32,000		728,335	Complete
New Hydrants & Valves	2012	728,335	17,500	17,500	308,000	1,018,835	Complete
6 Creek Crossings r e-layed	2012	1,018,835	20,450	20,450		998,385	Complete
Newcut Rd Upgrade	2012	998,385	13,150	13,150		985,235	Complete
Spot paint Starlight Tank #6	2013	985,235	17,760	17,760	190,000	1,157,475	Complete
Hill Rd Upgrade @ Rowan Drive	2013	1,157,475	6,500	6,500		1,150,975	Complete
Hwy 60 1400 FT Upgrade	2013	1,150,975	33,000	33,000		1,117,975	Complete
New Truck	2013	1,117,975	31,000	31,000		1,086,975	Complete
St Johns Rd Upgrade 2800' 12"	2014	1,086,975	84,000	90,000	225,000	1,221,975	
Hydrants & Valves	2014	1,221,975	15,000	15,000		1,206,975	
Daisy Hill Tank # 1 maint.	2014	1,206,975	18,000	18,000		1,188,975	
Upgrade Campion Rd. 3100' 8"	2014	1,188,975	62,000	65,000		1,123,975	
New Truck	2014	1,123,975	22,000	22,000		1,101,975	
Upgrade Scottsville Rd 1mile 12"	2015	1,101,975	176,800	190,000	215,000	1,126,975	
AMR Meter Reading System	2015	1,126,975	250,000	250,000		876,975	

System Map


New Pekin
E Blue River Rd
Whiskey Run Rd
Martinsburg Rd
S Lewis Rd
S Old Pekin Rd
Trainer Ln
335
Corydon Central Rd
60
King Rd
Squires Rd
Deam Lake
Wilson Switch Rd
Deam Lake Rd
Beryl Rd
Crone Rd
Clemmons Rd
E Lovell Rd
E Martinsburg Fire Rd
S Wetzel Rd
S Yoyes Rd
Greenville Borden Rd
Rake Rd
Bennettsville Rd
Perry Crossing Rd
Grant Line Rd
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65
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Apple Ln NE
150
Pekin Rd
Tom Ellis Rd
Borden Rd
Chapel Hill Rd
Jersey Park Rd
Navilton Rd
Starlight Rd
Diamond
Ellis Rd
St Marys Rd
Greenville
E Bradford Rd NE
Bradford Rd
N Bradford Rd NE
Kiesler Rd
Coen Rd
Nadorff Rd
Galena
Galena Lamb Park
Buck Creek Trl
Charlestown Rd
62
311
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