

Phase II Introduction—June 2010

The Indiana Department of Environmental Management's Wellhead Protection Rule mandates that every community water system in Indiana complete a Wellhead Protection Plan (WHPP). The purpose of the WHPP is to identify practices and measures that ensure the system's source of drinking water is protected from contamination. The completion of the WHPP is known as Phase I of the Wellhead Protection Rule. Each WHPP must be updated, and that update is known as Phase II. Subsequent updates after Phase II are due every five years.

The town of Cicero's Phase I was done in 2002. The Phase II is due on March 24, 2011, and the city asked the Alliance of Indiana Rural Water to assist with the needed updates. This packet constitutes the Phase II updates.

Because Cicero doesn't have an electronic copy of their Phase I, changes cannot easily be edited into that document. The Alliance decided that the clearest way to differentiate where changes have been made is to create a short addendum for each of the original Chapters where changes were necessary. Chapters lacking an addendum did not need any changes.

This packet contains all of the addendums:

- Chapter 1 update of the **Redelineation**.
- Chapter 7 updates of the **Potential Sources of Contamination** and **Letters to Potential Sources of Contamination**.
- Chapter 8 updates of the **Local Planning Team, Standardized Monitoring Framework, Information on Abandoned Wells, Notification of Leaseholders, Property Owners, and Mineral Right Owners Within the WHPP, and Public Education and Participation**.
- Chapter 9 updates of the **Local Responder Training, Information for Local Responders (Contingency Plan), and Critical Water Users**.

**Chapter 1
Update
June 2010**

IDEM Redelineation Decision

As part of the Wellhead Protection Plan Phase II, the Indiana Department of Environmental Management (IDEM) determines if the original wellhead delineation is still satisfactory or if a redelineation is necessary. The redelineation decision is made on a case by case basis and is partially dependent on the water system's current pumping rates not having increased by 10% or more since the Phase I was complete. The City of Cicero's Water Department and the Alliance of Indiana Rural Water submitted the pumping data listed below and as shown in the attached email, a redelineation was not necessary. CWD's future pumping plans are only to keep pace with the population's water demand.

Town of Cicero Yearly Pumping Rates in Millions of Gallons					
2004	2005	2006	2007	2008	2009
152.9	158.4	557	169	181	173

From: Cole, Travis [mailto:TCole@idem.IN.gov]
Sent: Friday, March 26, 2010 7:57 AM
To: 'Sky Schelle'
Cc: SULLIVAN, JAMES; COUSINS-LEATHERMAN, CONSTANCE
Subject: RE: cicero pumping data

Sky,

This delineation looks fine and Cicero doesn't need to redelineate for Phase II.

Travis Cole
Geologist
IDEM
Ground Water - Drinking Water
317-234-5025

From: Sky Schelle [mailto:sschelle@inh2o.org]
Sent: Thursday, March 25, 2010 1:19 PM
To: Cole, Travis
Subject: cicero pumping data

Cicero's water operator just called and told me his total pumping amount for 2009. 173 MG.

This number, combined with what I sent you earlier in the week is 6 years of data (I think). Let me know what you decide.

Thanks, Travis.

Sky Schelle
Source Water Specialist
Alliance of Indiana Rural Water
P.O. Box 789 Franklin, IN 46131
Cell: 317/695-2837 Office: 317/789-4200
Toll Free 888-937-4992
Fax 317/736-6676
www.inh2o.org

**Chapter 7
Update
June 2010**

In updating Chapter 7, the Alliance of Indiana Rural Water met with CWD and performed a windshield survey on March 23, 2010, within the 1 and 5 year Time of Travel (TOT). The windshield survey's purpose was to update, as necessary, the list of Potential Sources of Contamination (PSC) in Table 7-1. A revised Inventory Map is also included. Updating the list of PSC annually will be the responsibility of CWD.

Information collected from the Cicero Water Department, the windshield survey, and the Wellhead Phase I plan indicates that little or no landuse change has occurred in the WHPA. The Alliance of Indiana Rural Water sent a letter to each of the PSCs to inform them of their location within a Wellhead Protection Area and suggest voluntary measures they can take to help protect their drinking water source. An example letter follows Revised Table 7-1.

Revised Table 7-1

Site Summary

Map ID #	Database / Agency ID #	Site Name, Address, and County	Site Description	Type of Contaminant	Operating Status	Changes Since Phase I
1	PEST IN Commercial and Restricted Use Pesticide Dealers CAP2282	Billy Hoggard 115 Hidden Bay, Cicero, IN 46034-9453 Hamilton	Mobile Home Park	Lawn Maintenance Products	In operation	No
2	UST Indiana Underground Storage Tank 7916	Redbridge Park PO Box 216 Cicero, IN 46034-0216 Hamilton	Marina with fuel tanks	Gasoline	In operation	No
3	SPILL Indiana Spills Database Site 9306159	Unknown North End of Morse Reservoir, Cicero, IN 46034 Hamilton	Unknown (incomplete database information)	Citizen reported 'Brown Oil, < 1 gallon'	Unknown	Spill occurred on 6.15.93 and

						Cicero operator no longer considers it a potential source of contamination
4	PEST IN-Commercial and Restricted Use Pesticide Dealers CAP2223	Town of Cicero Parks Department 70 N. Byron, Cicero, IN 46034 Hamilton	Building used by Town of Cicero	Gasoline and Lawn Maintenance Products	In operation	Facility has moved outside of Wellhead Protectio n Area
3A	CRTK Indiana Community Right-to-Know Site 08471	Gas America Services Inc #03 120 N. Peru St. Cicero, IN 46034 Hamilton	Gas Station	Underground Storage Tanks	In operation	Map ID# has changed
3B	UST Indiana Underground Storage Tank 10530	Gas America Services Inc #03 120 N. Peru St. Cicero, IN 46034 Hamilton	6 Underground Storage Tanks	Gasoline	In operation	Map ID# has changed
3C	LUST Indiana Leaking Underground Storage Tank 200002514	Gas America Services Inc #03 120 N. Peru St. Cicero, IN 46034 Hamilton	Leaking Underground Storage Tank	Gasoline	IDEM supervised mitigation is ongoing	Map ID# has changed
4	RCRA Generator RCRA Small Quantity Generator IND985049634	B&C Engine Service Inc 70 N. Peru St. Cicero, IN 46034 Hamilton	Engine Repair (gasoline, diesel, small and large engines)	Oil, gasoline, diesel fuel, automotive fluids and batteries	In operation	Map ID# has changed
7	SPILL Indiana Spills Database Site	Cicero Dairy Queen 90 S. Peru St. Cicero, IN	Commercial Restaurant	< 1 gallon Benzene	Restaurant still in	Spill occurred

	9407058	46034 Hamilton			operation	on 7.8.94 and Cicero operator no longer considers it a potential source of contamination
5	CRTK Indiana Community Right-to-Know Site 08711	Cicero Water Dept. 40 S. Peru St. Cicero, IN 46034 Hamilton	Town drinking water plant	Chlorine and oils and other mechanical maintenance products	In operation	Map ID# has changed
6	CRTK Indiana Community Right-to-Know Site 04523	Verizon 559 N. Peru St. Cicero, IN 46034 Hamilton	Telephone communications	Unknown	In operation	Map ID# has changed and facility has changed its name
7	UST Indiana Underground Storage Tank 1405	Dave Case Inc 299 N. Peru St. Cicero, IN 46034 Hamilton	Underground Storage Tank	Gasoline and automotive repair oils and fluids	In operation	Map ID# has changed Facility is no longer selling gas. UST has been pumped empty. Facility now services automobi les.
8A	CERCLA	Iris Rubber Company	Rubber Molding	Chemicals required for	In	Map ID#

	CERCLA Site (Delisted NFRAP Site) IND006032916	10 East Jackson St. Cicero, IN 46034 Hamilton	Manufacturer	rubber processing include flow promoters, lubricants, release agents, dispersing agents, antistatic agents, antitack agents, slip agents, & processing aids, antioxidants, extenders, re- inforcing material, accelerators & pigments.	operation	has changed
8B	RCRA Generator RCRA Small Quantity Generator IND006032916	Iris Rubber Company 10 East Jackson St. Cicero, IN 46034 Hamilton	Rubber Molding Manufacturer	Chemicals required for rubber processing include flow promoters, lubricants, release agents, dispersing agents, antistatic agents, antitack agents, slip agents, & processing aids, antioxidants, extenders, re- inforcing material, accelerators & pigments.	In operation	Map ID# has changed
9	No database or permit Non Point Source	Sullivan Hardware 60 W. Jackson St. Cicero, IN 46034	Hardware Store	Lawn fertilizers and chemicals	In operation	Added since Phase I



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Franklin, IN 46131
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www.inh2o.org • alliance@inh2o.org

Frank Pouliot
President
Ellis Water Company

Jim Soper
Executive Director

Redbridge Park
PO Box 216
Cicero, IN 46034-0216

Dear Sir or Madame,

The Alliance of Indiana Rural Water, a member driven nonprofit dedicated to assisting Indiana’s small wastewater and drinking water facilities, is working with the City of Cicero to implement a Wellhead Protection Plan (WHPP) for its drinking water supply.

One of the WHPP’s requirements is notification of all potential sources of contamination within the wellhead area. Based on practices typical at facilities such as yours, Redbridge Park has been identified as a potential source of contamination to Cicero’s drinking water wells. This classification does not incur any regulatory or monitoring responsibilities; rather we are just notifying you of voluntary measures you can take to minimize risk to your drinking water source.

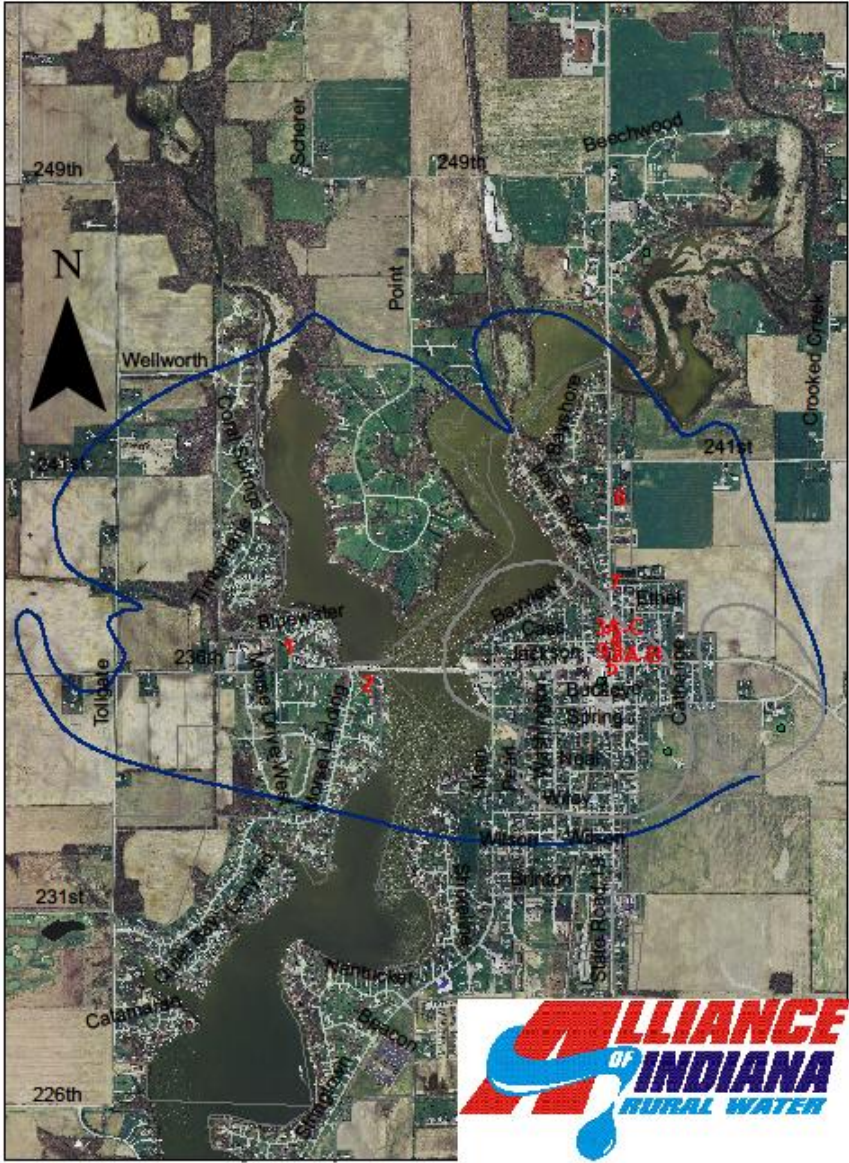
- All staff need to be aware of emergency procedures concerning the park’s underground storage tanks and the threat a leak poses to water quality. Remember that all spills and leaks should immediately be reported to the Cicero Water Department: (317) 984-7310.

A copy of Cicero’s WHPP can be viewed at the Water Plant: 1159 Stringtown Pike, Cicero. If you have any questions about this letter, please contact the Cicero Water Department at (317) 984-7310.

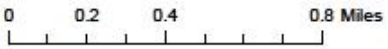
Sincerely,

Sky Schelle
Source Water Specialist

Map 1: Revised Potential Sources of Contamination



Gray Lines are 1 Yr. Time of Travel
 Blue Lines are 5 Yr. Time of Travel
 1-9 are Potential Sources of Contamination



**Chapter 8
Update
June 2010**

Local Planning Team

Once the Wellhead Phase I was completed, the original Cicero Local Planning Team did not continue to meet regularly. Should the need arise to discuss wellhead protection in a formal setting, an updated list of relevant planning team members is below.

Steven Peachey (City Water Customer), Cicero Fire Department—317-984-4575

Jerry Cook (City Water Customer), Cicero Town Council—317-984-4684

Joe Higgins, Cicero Water Department—317-379-9640

Pat Comer, Cicero Utilities Director—317-984-4833

C.J. Taylor, Cicero Waste Water Treatment Plant—317-984-5696

There is a county-wide Local Planning Team for Hamilton County, of which the Cicero Water Department participates. The meetings are generally held in Noblesville on a quarterly basis. The committee is made up of representatives from Hamilton County communities, water service providers and interested individuals concerned about protecting the drinking water supply, as well as, addressing and managing the state mandated wellhead protection program. Typical attendees include the communities of Noblesville, Carmel, Westfield, Sheridan, Atlanta, Arcadia, Cicero, as well as Indianapolis/Harbour Water and Indiana American Water. Appendix A includes minutes from the Hamilton County Local Planning Team.

The Sanitary Setback Area

The Alliance of Indiana Rural Water resurveyed the sanitary setback for each of Cicero's wells and found that the information in the original wellhead plan was still up to date.

Construction Standards and Permit Verification

As part of the Wellhead Protection Plan, IDEM requires verification that each community's well comply with state construction standards and permit requirements. The Alliance of Indiana Rural Water contacted the IDEM inspector for Hamilton County and as shown below verified that Cicero's wells are compliant.

-----Original Message-----

From: Lawson, Craig [mailto:CLAWSON@idem.IN.gov]
Sent: Monday, April 19, 2010 9:02 AM
To: Sky Schelle
Subject: RE: well construction standards a permits

Sorry Sky for the late reply. There are no compliance issues outstanding with the City of Cicero's drinking water wells.

From: Sky Schelle [mailto:sschelle@inh2o.org]
Sent: Thursday, February 04, 2010 7:15 AM
To: 'lmort@idem.in.gov'; 'clawson@idem.in.gov'
Subject: info needed for wellhead plan

Hello

I am helping rural community water systems meet their IDEM Wellhead Plan requirements. One requirement is verification that community production wells comply with state construction standards and permit requirements. Connie Leatherman, from the Groundwater Section, told me that you could provide that information from your respective areas.

Craig, can you provide that information for the City of Cicero's (Hamilton) drinking water wells?

Thanks to you both, and please let me know if you need any information or clarification from me.

Sky Schelle
Source Water Specialist
Alliance of Indiana Rural Water
P.O. Box 789 Franklin, IN 46131
Cell: 317/695-2837 Office: 317/789-4200
Toll Free 888-937-4992
Fax 317/736-6676
www.inh2o.org

Monitoring for Contaminants (Standardized Monitoring Framework)

The WHPP Phase II needs to include a copy of the Standardized Monitoring Framework received by IDEM for the contaminants associated with identified potential sources of contamination. A copy is included below.

STANDARDIZED MONITORING FRAMEWORK 1 (SMF 1)

Without Exceeding the Detection Limits, Maximum Contaminant Levels, or Action Levels

System Name: **Cicero Water Department**

Entry Point: **01**

PWSID# **5229005**

<<<< NINE YEAR COMPLIANCE CYCLE >>>>									
REGULATED Contaminants	First Compliance Period			Second Compliance Period			Third Compliance Period		
	2002	2003	2004	2005	2006	2007	2008	2009	2010
VOCs	Annual			Annual			Annual		
SOCs		Annual *			Quarterly			2nd & 3rd Qtr	
IOCs	Annual			Annual			Annual		
Asbestos									
PCBs & Dioxin									
Nitrate	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual	Annual
Cyanide & Glyphosate									

* Endothall and Pentachlorophenol are also required in the first, second, third, and fourth quarter of 2003.

Please contact the Drinking Water Branch at 317/308-3282 if you have any detections or exceed a maximum contaminant level.

Other Monitoring Requirements	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Bacteriological	5 per month	5 per month	5 per month	5 per month	5 per month	5 per month	5 per month	5 per month
Sodium	Annual			Annual			Annual		
Lead & Copper		20 samples between June & September			20 samples between June & September			20 samples between June & September	
TTHM & HAA5		1/plant/year *	1/plant/year *	1/plant/year *	1/plant/year *	1/plant/year *	1/plant/year *	1/plant/year *	1/plant/year *
Radionuclides	Annual				Annual		4th qtr		
CCR	Due by 7/1	Due by 7/1	Due by 7/1	Due by 7/1	Due by 7/1	Due by 7/1	Due by 7/1	Due by 7/1	Due by 7/1

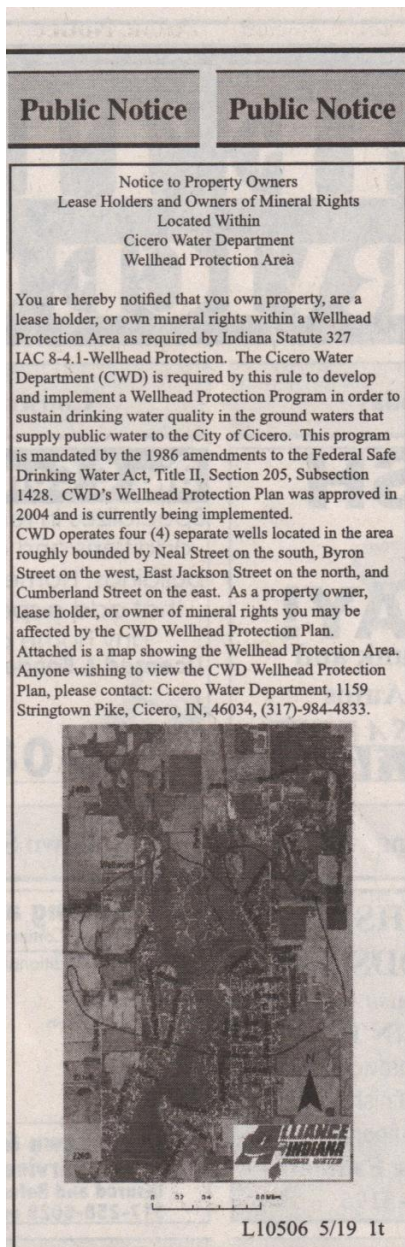
* Collect during the warmest month of the year.

Well Abandonment

Neither the Cicero Water Department nor the Alliance of Indiana Rural Water is aware of any abandoned wells in the project area. The Alliance did supply the Hamilton County Soil and Water District with information on well abandonment procedures. If abandoned wells are discovered in the future, they will be added to this WHPP.

Notification

The Alliance of Indiana Rural Water and the Cicero Water Department notified all property owners, mineral owners, and leaseholders of record residing within the project area of their status within a WHPA. The notification ran in *The Times* on May 19, 2010.



Education

Of the education items listed in 8.2.9 of the original Wellhead Protection Plan, the following have been completed:

- Making copies of the WHPP publicly available (#1)
- Posting flyers and informational bulletins at the utility office to inform the public about ways of preventing contamination from impacting groundwater (#4)
- Veolia Water has done water quality school education (#6)

The rest of the items listed in 8.2.9 were not completed due to CWD's lack of resources and scheduling flexibility. These items will be reviewed by the planning team each year for future funding and scheduling; the highest priority being the inclusion of wellhead protection in the CCR. Although not required as part of the Phase II update, the Alliance of Indiana Rural Water presented wellhead and groundwater education at the 2010 Hamilton County 4H Fair.

Alliance of Indiana Rural Water Educating Hamilton County Residents



Chapter 9
Update
June 2010

Local Responder Training Plan

IDEM requires that Phase II document local responder training. Below is documentation of Cicero Fire Department's 2010 Hazmat training. Hazmat training includes hazardous waste, hazardous materials, and industrial safety training. Future WHPP updates to IDEM will need to document training that includes wellhead issues. The Town of Cicero will need to work with their local responders to meet this requirement.

Cicero Fire
Fire Inservice
January 25th - 29th 2010

Course Length	# hrs/Instructors	Haz-Mat / Bio / Toxicol	Day of the Week							
Last Name	First Name	Unit#	Signature	S	M	T	W	T	F	S
Peaphey	Steven	2501								
Schroter	Bruce	2502						X		
DeCamp	John	2503						X		X
Cojar	Darren	2504					X		X	
Liston	Jerry	2505						X	X	
Smit	Steve	2506						X	X	
		2507								
		2508								
Kinder	Dennis	2509								
Honklicka	Robert	2510							X	
Downman	Russell	2511								
Falcon	Carl	2512								
Hutchless	Ryan	2513						X		
Roberts	Raymond	2514							X	X
Hansley	Alan	2515							X	X
Gilbone	Aaron	2516								
Patchett	Benjamin	2517								X
Samuel	Nick	2518								
Ovchlaer	Lance	2519								
Jr. Peachey	Steven	2520								
Cook	Ryan	2521								X
Bates	Chris	2522								
Yates	Hobert	2523								
Tipton	Anthony	2524								
Huffman	Andrew	2525								
Huffman	Brandy	2526								
Marin	DJ	2527						X		
Bennett	Donald	2528								
Wylar	Jessica	2529							X	
Criele	Evar	2530							X	X
Gordan	Shelly	2531							X	X
Moore	Kathryn	2532							X	X
Collar	Kristen	2533								
Garver	Jeffery	2534								
Ross	Erin	2535								X
Harron	Christian	2536						X		
Brock	Kevir	2537						X		
Travis	Christian	2538								
Quigley	Malinae	2539						X		
Huser	Thomas	2540								
Sohrer	Brell	2541							X	
Goodwin	Michael	2542								
Plurrier	David	2543						X		
Craig	Berly	2544								
Anderson	Jessica	2545								
Webb	Nikki	2546								
Wakelield	Allison	2547								
Kirsh	Joe/Lua	2548								
Bredemeyer	Kerry	2549							X	
Jeremy	Landae	2550								X
Alex	Colter	2551								X

Dr. David Ehrlich
(22)

Information for Local Responders

Some of the information, located in Section 9.3, needed to be updated.

- The names of community public water suppliers to contact in the event of an emergency:
 - Joe Higgins, (317) 984-4833, home (317) 776-7031, and cell (317) 379-9640
 - Pat Conner, (317) 984-4833, home (765) 675-6886, and cell (317) 379-3340
 - Jerry Cook, home (317) 984-4684, and cell (317) 437-7242
 - C.J. Taylor, (765) 430-4109

- Newspapers
 - Indianapolis Star, (317) 633-1240
 - The Noblesville Times, (317) 770-7777

- Indiana Department of Environmental Management
 - Spill Response, 1-888-233-7745

Critical Water Users

The original list of Critical Water Users was Figure 9.5 in the WHPP Phase I. That list is updated below, and the updates have been placed directly into the document where Figure 9.5 belonged.

Seventh Day Adventist Elementary School	24089 St. Rd. 19	984-3252
Dr. Charles Harris, M.D.	509 N. Peru St.	9894-9311
Dr. Robert Chistensen, M.D.	270 W. Jackson St.	984-2025
D. Stephen K. Shields, D.D.S.	770 S. Peru St.	984-3531
Dr. Thomas Elliott, D.D.S.	17 W. Jackson St.	984-5676
Sacred Heart Church Pre-School	429 S. Main St.	984-3106
Cicero Christian Church Day Care	1715 Stringtown Pike	984-4653
Chester Henson	69 N. Harrison St.	984-3128
Alexander's On the Water	369 W. Jackson St.	984-8173
Cicero Coffee Company	150 S. Peru St.	984-2739
Dairy Queen Brazier	90 S. Peru St.	984-4504
Domino's Pizza	130 S. Peru St.	984-7307
Library Grill	97 W. Jackson St.	984-2422
McDonald's	1015 S. Peru St.	984-3264
One Stop Video and Pizza	160 S. Peru St.	984-4597
Pizza House	10 Brinton St.	984-4399
Pizza King	101 W. Jackson St.	984-5720
Subway Sandwiches and Salads	110 S. Peru St.	984-2090
Village Pantry	1010 S. Peru St.	984-3772
Jackson Street Café	400 W. Jackson St.	984-7137
Jesses Sports Grille	10 W. Jackson St.	984-4200

