

**ENVIRONMENTAL REPORT (ER)**  
**FOR**  
**WELLS COUNTY REGIONAL SEWER DISTRICT**  
**WASTEWATER COLLECTION AND TREATMENT**

**MARCH 2012**



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## CHAPTER 1 - PURPOSE AND NEED FOR PROJECT

### 1.1 Purpose and Need for Project

The Wells County Regional Sewer District was formed to address the McKinney/Paxson area, located just east of the City of Bluffton corporate limits. The area is primarily residential with some agricultural/dairy and served by individual on-site sewage systems consisting of septic tanks and leach or absorption fields. These fields are areas in which effluent from a septic tank is distributed into the soil. According to the “Soil Survey of Wells County”, most of the soils within the area are considered as “severe” in that they have poor filtering capabilities and are subject to high ground water levels.

A Warning of Noncompliance was issued on July 11, 2001 by the Indiana Department of Environmental Management. (**APPENDIX 1**) The warning was based on Wells County Health Department observations and documentation of discharges of sewage into McKinney and Paxson Ditches, county drainage ditches, which flow into the Wabash River. Water samples taken from the ditches at various times during 1999 and 2000 were tested for E.coli bacteria, as an indicator of surface water quality. Results of sample analysis showed significant elevated counts of bacteria, an indication of improperly treated sewage from local septic systems according to the Wells County Health Department.

More recent collection of samples and analysis done in November 2008 and in December 2011 by the County Health Department showed no change in elevated E.coli levels. **APPENDIX 2** contains sample testing results.

An Agreed Order was adopted on September 26, 2005 by the Indiana Department of Environmental Management that orders the Wells County Commissioners, to (A) form a Regional Sewer District, and (B) “handle wastewater infrastructure needs and to cease the inadequately treated discharges from septic tank systems from discharging to the ground surface, entering ditched or other surface waters, beginning with the McKinney/Paxson Ditch area.” (**APPENDIX 3**)

On June 3, 2009, the Wells County Regional Sewer District was formed per the IDEM formation Order. (**APPENDIX 4**)

Without wastewater collection and treatment improvements, the existing septic tank and absorption field systems will continue to fail and allow further contamination of the McKinney/Paxson Ditches and the groundwater. A new collection system will enable improvements and not impede development in the area.

### 1.2 Project Description (Proposed Project)

1.2.1 Collection System: Sanitary sewers including some gravity and some small diameter/low pressure force main with individual grinder pump stations to serve approximately 75 residential customers. The gravity sewer will be extended from existing sewer on the north side of SR 124. The force main will be connected to the existing Vera

Cruz force main along Elm Grove. All flow will discharge to the City of Bluffton collection system upstream of an existing pump station located on SR 124. The gravity sewer will be constructed by open cut trench method and the force main will be installed by the directionally drilled method. Proposed components of the collection system are as follows with estimated quantities:

Piping, Valves and Pumps for Low Pressure Force Main System

Gravity Sewer

- 8-inch PVC (3,000 LF)
- Manholes (6)

Force Main

- 2-inch HDPE (16,400 LF)
- 3-inch HDPE (700 LF)

Valves and Fittings

- Air/vacuum release valves (3)
- Clean outs/flushing structures (7)
- 2-inch isolation valves (6)
- In-line cleanout (7)

Individual Pump Components

- Grinder pumps (65)
- Pump/Panel installation (65)
- 1.5-inch piping from grinder unit to low pressure force main (9,750 LF)

Upgrade Existing Duplex Pump Station

- New larger capacity pumps

1.2.2 Wastewater Treatment: By City of Bluffton Wastewater Treatment Plant

1.3 Health and Safety Issue

Water samples from the main ditch and side ditches have been taken in the McKinney Ditch area over the past several years to test for E.coli bacteria as an indicator of surface water quality. A map showing the compilation of testing results for fecal coliform E.coli count per 100 ml is presented in Appendix 2. The dates of sampling are:

- April 6, 1999
- October 28, 1999
- November 13, 2008
- December 14, 2011

Results indicate that most of water samples far exceed the action level of 235 count per ml for E.coli bacteria.

In recent years the County Health Department has not been able to issue new permits for new on-site septic systems due to the poor soil conditions. A letter from the Wells County Health Department, dated February 7, 2011 in support of the sanitary sewer project and describing the situation is included as **APPENDIX 5**.

## **CHAPTER 2 – PROJECT ALTERNATIVES**

The Wells County RSD was established to provide sanitary sewer service to eliminate failing septic systems and reduce the contamination of the McKinney/Paxson Ditches and potential for groundwater contamination and the associated risk to human and environmental health. To address these concerns, the following alternatives were considered.

### Feasible Alternatives for Proposed Sanitary Sewer Collection and Wastewater Treatment

#### **No Action Alternative**

The Wells County RSD McKinney/Paxson area is primarily residential and served by individual on-site sewage systems consisting of septic tanks and leach or absorption fields distributed into the soil. Most of the soils within the area are considered as “severe” in that they have poor filtering capabilities and are subject to high ground water levels.

Without wastewater collection, the existing septic tank and absorption field systems will continue to fail and allow further contamination of the McKinney/Paxson Ditches and groundwater posing health issues.

Since Wells County is under an Agreed Order, the No Action alternative would result in fines.

Therefore, taking no action is not considered a viable alternative.

#### **Alternative 1 – New Pump Station (Flow from Vera Cruz & McKinney/Paxson Area) with New Force Main to Bluffton WWTP**

This alternative will collect all flow from the Vera Cruz force main plus flow from the McKinney/Paxson area with discharge to a new pump station and new force main to the Bluffton WWTP. This alternative includes a combination of gravity sewer and grinder pumps with low pressure small diameter force main. The new pump station and force main will handle flow from the Vera Cruz force main and the McKinney/Paxson area except for nine homes that will tie into the existing pump station. The existing Bluffton SR 124 East Pump Station will then operate without flow from the Vera Cruz force main. This alternative includes:

- New pump station located at SR 124 and Elm Grove to collect flow from the Vera Cruz force main and from new gravity extended east on SR 124.
- New force main from new pump station along SR 124, crossing Main St. (Route 1), south around Bank property to 30-inch interceptor south of the railroad.
- Collection by gravity along SR 124 from new pump station east to include approximately nine homes.

- Collection by small diameter force main and individual grinder pumps for three homes south of SR 124.
- New pump station on SR 124 with collection by gravity along S.R. 124 from the west and east, from 450 E (to serve 37 homes).
- Force main from proposed pump station on SR 124 to the existing manhole on SR 201.
- Connect three homes into existing gravity sewer along SR 201.
- Upgrade existing duplex pump station located on SR 201 near Elm Grove.
- Collection by new small diameter force main and individual grinder pumps for six additional homes on 500 E with tie-in to the Vera Cruz force main.
- Collection by small diameter force main and individual grinder pumps for twelve homes on 100 S with connection to the Vera Cruz force main.
- Connect ten homes along Elm Grove to the Vera Cruz force main with individual grinder pumps.

**Alternative 2 – Upgrade Existing SR 124 Pump Station (All Existing Flow Plus Flow from McKinney/Paxson Area) with New Force Main to Bluffton WWTP**

This alternative will collect all flow from the Vera Cruz force main plus flow from the McKinney/Paxson area with discharge to the existing SR 124 East Pump Station, upgrade of the existing pump station from 450 gpm to larger capacity pumps (650 to 800 gpm) with new force main to the Bluffton WWTP. This alternative includes a combination of gravity sewer and grinder pumps with low pressure small diameter force main. This alternative includes:

- Upgrade SR124 East Pump Station.
- New force main from existing SR 124 East Pump Station, crossing Main St. (Route 1), south around Bank property to 30-inch interceptor south of the railroad.
- Collection by gravity sewer for nine homes along SR 124 with connection to existing manhole on the north side of SR 124, to Bluffton collection system.
- Collection by small diameter force main and individual grinder pumps for three homes south of SR 124.
- New pump station on SR 124 with collection by gravity along SR 124 from the west and east, from 450 E (to serve 37 homes).
- Force main from proposed pump station on SR 124 to the existing manhole on SR 201.
- Connect three homes into existing gravity sewer along SR 201.
- Upgrade existing duplex pump station located on SR 201 near Elm Grove.
- Collection by new small diameter force main and individual grinder pumps for six homes on 500 E with connection to the Vera Cruz force main.
- Collection by small diameter force main and individual grinder pumps for twelve homes on 100 S with connection to the Vera Cruz force main.

- Connect ten homes along Elm Grove to the Vera Cruz force main with individual grinder pumps.

### **Alternative 3 – WWTP With Discharge to Wabash River**

This alternative will collect flow from the remaining 75 homes in the McKinney/Paxson area with transport to a package WWTP and discharge to the Wabash River. This alternative includes combination of gravity sewer and grinder pumps with low pressure small diameter force main. The Vera Cruz force main flow will not be collected, but remain as it is. This alternative includes:

- Collection by small diameter force main and individual grinder pumps for nine homes along SR 124 east to proposed pump station on SR 124.
- Collection by small diameter force main and individual grinder pumps for three homes south of SR 124.
- New pump station on SR 124 with collection by gravity along SR 124 from the west and east, from 450 E (to serve 46 homes).
- Force main from proposed pump station on SR 124, south along SR 201, southeast along Elm Grove to the proposed WWTP on Elm Grove.
- Collection by small diameter force main and individual grinder pumps for six homes on 500 E, south on 500 E to proposed WWTP on Elm Grove.
- Collection by small diameter force main and individual grinder pumps for twelve homes on 100 S with connection to the force main from 500 E.
- Proposed new WWTP located on the north side of Elm Grove (SR 201).
- Gravity outfall sewer for treated WWTP effluent to Wabash River.
- Vera Cruz force main and homes in the McKinney/Paxson area connected to the existing force main would remain as is, with flow discharged to the Bluffton East SR 124 pump station.

### **Alternative 4 – Lagoon Treatment System with Discharge to Wabash River**

This alternative is virtually the same as Alternative 3, except with lagoon treatment instead of a package WWTP; collection of flow from the remaining 75 homes in the McKinney/Paxson area with transport to a lagoon treatment system with discharge to the Wabash River. This alternative includes combination of gravity sewer and grinder pumps with low pressure small diameter force main. The Vera Cruz force main flow will not be collected, but remain as it is. This alternative includes:

- Collection by small diameter force main and individual grinder pumps for nine homes along SR 124 east to proposed pump station on SR 124.

- Collection by small diameter force main and individual grinder pumps for three homes south of SR 124.
- New pump station on SR 124 with collection by gravity along SR 124 from the west and east, from 450 E (to serve 46 homes).
- Force main from proposed pump station on SR 124, south along SR 201, southeast along Elm Grove to the proposed WWTP on Elm Grove.
- Collection by small diameter force main and individual grinder pumps for six homes on 500 E, south on 500 E to proposed WWTP on Elm Grove.
- Collection by small diameter force main and individual grinder pumps for twelve homes on 100 S with tie-in to the force main from 500 E.
- Proposed new lagoon treatment system located on the north side of Elm Grove (SR 201).
- Gravity outfall sewer for treated lagoon system effluent to Wabash River.
- Vera Cruz force main and homes in the McKinney/Paxson area connected to the existing force main to remain as is, with flow discharge to the Bluffton East SR 124 pump station.

**Alternative 5 – Gravity Sewer Along SR 124, Collection with Small Diameter Force Main to Vera Cruz FM with Discharge to Bluffton Collection System Upstream of Existing SR 124 Pump Station**

This alternative will extend gravity sewer east along SR 124, and collect all flow from the Vera Cruz force main plus flow from the McKinney/Paxson area, discharged to the Bluffton collection system upstream of the existing SR 124 Pump Station. This alternative includes a combination of gravity sewer and grinder pumps with low pressure small diameter force main. This alternative includes:

- Collection by gravity sewer for nine homes along SR 124 with connection to existing manhole on the north side of SR 124, to Bluffton collection system.
- Collection by small diameter force main and individual grinder pumps for 37 homes along SR 124 with discharge to existing gravity sewer on SR 201.
- Connect three homes into existing gravity sewer along SR 201.
- Upgrade existing duplex pump station located on SR 201 near Elm Grove.
- Collection by small diameter force main and individual grinder pumps for six homes on 500 E with connection to existing small diameter force main that is connected to the Vera Cruz force main.
- Collection by small diameter force main and individual grinder pumps for twelve homes on 100 S with connection to the Vera Cruz force main.
- Connect ten homes along Elm Grove to the Vera Cruz force main with individual grinder pumps.

## Evaluation of Alternative Components

- A. Collection System: The following collection system alternatives have been considered.
1. Low pressure force mains with grinder pump stations
    - a. Description: This alternative includes low pressure force mains with individual grinder pump stations.
    - b. Design Criteria: The low pressure force main system shall maintain scouring velocity with no point in the collection system piping exceeding the maximum recommended total dynamic head (TDH) for each pump. A spreadsheet model would be developed based on TDH for each pump based on pipe sizes, number of grinder pumps and elevation of pumps.
    - c. Map: See Alternative Maps.
    - d. Environmental Impacts: Short term impacts during construction include disruption of traffic, noise, open cut for horizontal directional drilling for stream crossings, and temporary erosion control. Location of individual wells will be considered when locating grinder pumps. Stream crossings with low pressure force main will be by horizontally directional drilling with the force main encased in piping.
    - e. Land Requirements: Grinder pump units will be located on private property with rights-of-entry and/or easements required.
    - f. Construction Problems: Existing utilities will have to be marked and found to avoid conflicts. Pressure relief/vacuum valve structures may be required along the force main.
    - g. Cost Estimates: See alternative construction cost tables.
    - h. Advantages/Disadvantages: The force mains can be directionally drilled, allowing for less disruption during construction. Low pressure force mains can be installed along the contours of the land with a minimum cover of five feet resulting in a lower installation cost than gravity sewer. Grinder pumps will require an electrical drop. Easements and/or rights-of-entry will be required for construction and maintenance of the grinder pump stations.
  2. Gravity sewers and conventional lift stations
    - a. Description: This alternative includes gravity sewers and lift stations for the wastewater collection along SR 124, where the homes are dense.
    - b. Design Criteria: Minimum sewer diameter of 8 inches with minimum slopes for gravity.
    - c. Map: See Alternative Maps.
    - d. Environmental Impacts: Short term impacts during construction include disruption of traffic, noise, open cut trenching, and temporary erosion control.



- e. Land Requirements: Gravity sewer will be located within road right-of-way. Where land is required for pump stations, the RSD shall purchase the land. Approximately 20 feet by 20 feet will be required. The pump station (s) may be able to be located within the road right-of-way.
- f. Construction Problems: Existing utilities will have to be marked and found to avoid conflicts. If trenches are deeper, some dewatering may be required. Special backfill will be required under and adjacent to pavement. Without easements, construction is limited to the public right-of-way.
- g. Cost Estimates: See alternative construction cost tables.
- h. Advantages/Disadvantages: Land purchase will be required for the small pump station on SR 124, and for the large pump station on SR 124 near the existing Bluffton pump station.

B. Force Main to Bluffton: The following pumping alternatives have been considered.

- 1. Force main from new or upgraded pump station on S.R. 124 to the Bluffton WWTP.
  - a. Description: This force main includes approximately 5,600 LF of force main. The force main shall be by open cut and/or directional drilling method (HDD). HDD shall be at creek crossings and jack and bore at the railroad crossing.
  - b. Design Criteria: Force main design size is based on the total dynamic head for the conventional pump station pumping rate.
  - c. Map: See Alternative Maps.
  - d. Environmental Impacts: Short term impacts during construction include disruption of traffic due to open cut for pits for HDD and jack and bore of the force main construction, noise and temporary erosion control.
  - e. Land Requirements: The force main will follow the county road right-of-way and may require easements for the cross county segment.
  - f. Construction Problems: Water table may be encountered during excavation of pits for force main HDD and jack and bore.
  - g. Cost Estimates: See Cost Tables.
  - h. Advantages/Disadvantages: No certified operator required.

C. Wastewater Treatment: The following treatment options have been considered.

- 1. Package Wastewater Treatment Plant
  - a. Description: A new Package WWTP is to include coarse screening, a comminutor, aerated flow equalization, biological treatment with aeration, two final clarifiers, two sand filters for tertiary treatment for ammonia-nitrogen removal, ultra-violet disinfection, and flow metering. Sludge handling includes aerated sludge digester/holding.

b. Design Criteria: WWTP capacity 18,000 gallons per day average daily flow, to treat domestic sewage with 230 mg/l BOD, 250 mg/l TSS and 40 mg/l ammonia-nitrogen. Effluent limits are anticipated to be 10 mg/l BOD, 12 mg/l TSS and 1.1 mg/l (monthly average) ammonia-nitrogen.

c. Map: See Alternative Maps.

d. Environmental Impacts: A new WWTP's treated effluent will impact the receiving stream in quantity of flow and effluent water quality.

e. Land Requirements: To allow for isolation from existing dwellings approximately one acre of land is required. A 500-foot setback from dwellings is required for wastewater treatment facilities.

f. Construction Problems: Groundwater may be encountered during excavation for the treatment plant structures.

g. Cost Estimates: See Alternative Cost Tables.

h. Advantages/Disadvantages: The District will have control over their treatment system. Land will have to be purchased for the treatment facilities. The District will have to hire a certified operator to operate and maintain the WWTP, take samples and have them tested, as well as certify plant monthly operating records.

2. Lagoon Treatment System

a. Description: A new lagoon system is to include coarse screening, two lagoon cells with diffused aeration, two cell submerged attached growth reactor, ultra-violet disinfection, and flow metering.

b. Design Criteria: Lagoon system capacity 18,000 gallons per day average daily flow, to treat domestic sewage with 230 mg/l BOD, 250 mg/l TSS and 40 mg/l ammonia-nitrogen. Effluent limits are anticipated to be 10 mg/l BOD, 12 mg/l TSS and 1.1 mg/l (monthly average) ammonia-nitrogen.

c. Map: See Alternative Maps.

d. Environmental Impacts: A new lagoon system treated effluent will impact the receiving stream in quantity of flow and effluent water quality.

e. Land Requirements: To allow for isolation from existing dwellings approximately two acres of land is required. A ¼-mile setback from dwellings is required for lagoons.

f. Construction Problems: Groundwater may be encountered during excavation for the lagoon treatment structures.

g. Cost Estimates: See Alternative Cost Tables.

h. Advantages/Disadvantages: The District will have control over their treatment system. Land will have to be purchased for the treatment facilities. The District will have to hire a certified operator to operate and maintain the WWTP, take samples and have them tested, as well as certify plant monthly operating records.

## CHAPTER 3 - AFFECTED ENVIRONMENTAL CONSEQUENCES

### 3.1 Land Use/Important Farmland/Formally Classified Lands

#### 3.1.1 Affected Environment

Per the Wells County Planning Commission there is no land use plan in the RSD McKinney/Paxson service area boundaries. The County comprehensive plan states that this area is designated for farming. It also states that all residences should be located on large tracts to provide for a low housing density to accommodate wells and septic systems. Current land uses in the RSD include residential, and agricultural. The areas affected by the proposed project include mostly residential and agricultural property. Within the RSD boundaries there are approximately 90 residential structures. The current population is estimated at approximately 225.

#### 3.1.2 Environmental Consequences

The proposed project, consisting of a gravity sewer and small diameter force main collection system, will cause a conversion of prime farmland as indicated in the response letter from the Natural Resources Conservation Service (Agency documentation Addendum).

#### 3.1.3 Mitigation

All attempts will be made to convert as little farmland as necessary for the collection system and the utilization of existing rights-of-way to construct the collection system with small footprints for the grinder pump lift stations.

### 3.2 Floodplains

#### 3.2.1 Affected Environment

Affected areas may include areas south of Elm Grove Road due to the influence of the Wabash River, area around the McKinney Ditch between SR 201 and CR. 500 E, and the area on either side of Johns Creek where SR 124 crosses the creek.

#### 3.2.2 Environmental Consequences

The referenced project will not impact “waters of the United States” that include all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce. The project may require formal approval from the Indiana Department of Natural Resources pursuant to IC 14-28-1.

#### 3.2.3 Mitigation

Due to the project’s close proximity to “Waters of the United States”, best management Practices (as per the U.S. Army Corps of Engineers) and The Indiana Department of Natural Resources will be used to strictly enforce and prevent unauthorized discharge of fill materials, either temporary or permanent, and any obstructions to flowing bodies of water.

### 3.3 Wetlands

#### 3.3.1 Affected Environment

Affected areas include areas south of Elm Grove Road due to the influence of the Wabash River, area around the McKinney Ditch between SR 201 and CR. 500 E, and the area on either side of Johns Creek where SR 124 crosses the creek and adjacent watershed areas within the RSD. From a map created from the U.S. Fish and Wildlife

Services National Wetland Inventory website, there are no wetlands identified in the McKinney/Paxson service area.

#### 3.3.2 Environmental Consequences

The numerous wetlands in the area likely support many rare species of plants and animals. Woodlands and wetlands should be avoided by utilizing existing roadways and non-wooded uplands. Sewers provided to homes and/or businesses should not be connected or propose to be built in any wetlands areas.

#### 3.3.3 Mitigation

The project will utilize existing rights-of-way and best management practices to minimize effects to wetland and stream areas. All water crossings of collection system piping will utilize horizontal directional drilling (HDD) to minimize disruption during construction. Wetland delineations and detailed plans showing the routes of proposed sewer line will be submitted, and those areas will be avoided or utilize best management practices to minimize or avoid impact.

### 3.4 Cultural Resources

#### 3.4.1 Affected Environment

The areas affected by the proposed project include residential and farm property. Within the RSD boundaries there are a total of approximately 90 residential structures. The current population is estimated at approximately 225. The project will also affect farm acreage and areas that may require an archaeological evaluation.

#### 3.4.2 Environmental Consequences

There are no historical structures that are close enough to the project to cause consequences. An architectural survey of the area has been completed utilizing data from the most recent digest of architecturally significant structures for Wells County.

#### 3.4.3 Mitigation

An archaeological survey will be completed and construction will be altered depending upon the survey results and determination by the Indiana State Historical Preservation Office.

### 3.5 Biological Resources

#### 3.5.1 Affected Environment

Affected areas include areas south of Elm Grove Road due to the influence of the Wabash River, area around the McKinney Ditch between SR 201 and CR. 500 E, and the area on either side of Johns Creek where SR 124 crosses the creek and adjacent watershed areas within the RSD. There are no wetlands within the project area.

#### 3.5.2 Environmental Consequences

Environmental impacts will result from the disruption of the local ecology due to tree and brush removal.

#### 3.5.3 Mitigation

The project will use horizontal directional drilling to avoid environmental consequence in wetland areas. Tree and brush removal will be minimized and repairs will be implemented in those affected areas. In addition the following control measures will be implemented:

1. Erosion control measures will be required to prevent runoff to lakes, streams or regulated drains.

2. Directional bore pits will be located to minimize the clearing of woody riparian vegetation.
3. Stream banks will not be disturbed.
4. Disturbed vegetative areas will be replanted with native plant species.

### 3.6 Water Quality Issues

#### 3.6.1 Affected Environment

Affected areas include areas south of Elm Grove Road due to the influence of the Wabash River, area around the McKinney Ditch between SR 201 and CR. 500 E, and the area on either side of Johns Creek where SR 124 crosses the creek and adjacent watershed areas within the RSD. There are also various regulated drains, streams and ground water resources within the project service area.

#### 3.6.2 Environmental Consequences

Siltation and erosion will be minimized through the use of barriers. The construction and operation of the project will not negatively impact groundwater, aquifers, or drinking water supplies. The operation of a public system will reduce the risk of contamination of groundwater and drinking water supplies by eliminating the leaking septic tanks and absorption fields that are not suitable for the soil and groundwater conditions.

#### 3.6.3 Mitigation

Erosion control measures will be required to prevent runoff to road side ditches, streams and regulated drains. Stream banks will not be disturbed.

### 3.7 Coastal Resources

Not Applicable to this Project

### 3.8 Socio-Economic/Environmental Justice Issues

#### 3.8.1 Affected Environment

There will be financial impacts to homeowners, but there should be limited social and environmental impacts. Environmental water quality should be markedly improved affecting the homeowners by providing both clean drinking water and improved recreational uses of the lakes and streams.

#### 3.8.2 Environmental Consequences

Not Applicable

#### 3.8.3 Mitigation

The impact on homeowners will be minimized through the use of low cost loans as provided through the USDA Rural Development Services.

### 3.9 County Highway Roads

#### 3.9.1 Affected Environment

The affected roads include SR 124 (Division Road), SR 316 (Elm Grove Road), SR 201 (450 East Road), and S 500 E. in Harrison Township.

#### 3.9.2 Environmental Consequences

The collection system force main is proposed to be constructed within some county road rights-of-way. Most of the force main will be installed using the directional drilling method with depth of the force main at 5 to 6 feet. Drilling pits at intervals will be required for construction. Gravity sewer is proposed along SR 124 on the north side.

### 3.9.3 Mitigation

Erosion control measures will be required. Existing utilities will be located and avoided. Drainage in side ditches will be maintained. Disturbed vegetation will be replanted with native plant species.

## CHAPTER 4 - SUMMARY OF MITIGATION

### 4.1 Land Use/Important Farmland/Formally Classified Lands

#### Mitigation

All attempts will be made to convert as little farmland as necessary for the collection facilities and existing rights-of-way to construct the collection system will be used with small footprints for lift stations.

#### Enforcement

Overseeing of planning authority.

### 4.2 Floodplains

#### Mitigation

Due to the project's close proximity to "Waters of the United States", best management Practices (as per the U.S. Army Corps of Engineers) and The Indiana Department of Natural Resources will be used to strictly enforce and prevent unauthorized discharge of fill materials, either temporary or permanent, and any obstructions to flowing bodies of water.

#### Enforcement

Construction documents will contain specific language that discharge in the floodplains is prohibited. Regulatory body will make random checks to investigate compliance and check planning authority.

### 4.3 Wetlands

#### Mitigation

The project will utilize existing rights-of-way and best management practices to minimize affects to potential wetland and stream areas. All water crossings of collection system piping will utilize horizontal directional drilling (HDD) to minimize disruption during construction. Wetland delineations and detailed plans showing the routes of proposed sewer piping will be submitted.

#### Enforcement

Regulatory body will make random checks to investigate compliance and check planning authority.

### 4.4 Cultural Resources

#### Mitigation

An archaeological survey will be completed and construction will be altered depending upon the survey results and determination by the Indiana State Historical Preservation Office.

#### Enforcement

Review of archaeological survey and final plans by regulatory body.

### 4.5 Biological Resources

#### Mitigation

The project will use horizontal directional drilling to avoid environmental consequence in wetland areas. Tree and brush removal will be minimized and repairs will be implemented in those affected areas. In addition the following control measures will be implemented:

1. Erosion control measures will be required to prevent runoff to streams or regulated drains.

2. Directional bore pits will be located to minimize the clearing of woody riparian vegetation.
3. Stream banks will not be disturbed.
4. Disturbed vegetative areas will be replanted with native plant species.

Enforcement

Regulatory body will make random checks to investigate compliance and check planning authority.

4.6 Water Quality Issues

Mitigation

Erosion control measures will be required to prevent runoff to streams and regulated drains. Stream banks will not be disturbed.

Enforcement

Regulatory body will make random checks to investigate compliance and check planning authority.

4.7 Coastal Resources

Mitigation

Not applicable on this project.

4.8 Socio-Economic/Environmental Justice Issues

Mitigation

The impact on homeowners will be minimized through the use of low cost loans as provided through the USDA Rural Development Services.

Enforcement

USDA will be the enforcing agency.

4.9 County Highway Roads

Mitigation

The project will use open trench method for gravity sewer and horizontal directional drilling to construct the force main. The following control measures will be implemented:

1. Erosion control measures will be required.
2. Directional bore pits will be located to minimize the clearing of woody riparian vegetation.
3. Side ditch drainage will be maintained.
4. Disturbed vegetative areas will be replanted with native plant species.

Enforcement

Regulatory body will make random checks to investigate compliance and check planning authority.



## CONSTRUCTION MITIGATION MEASURES

### Air Quality – Suppression of Dust

- Minimize areas of disturbed soils and areas of open excavation.
- Minimize stockpiling by coordinating excavation, spreading, regading, compaction and importation activities. Install stockpiles outside hazard areas such as drainage lines and away from heavily trafficked areas.
- Stabilize stockpiles to minimize wind erosion (e.g. water sprays and covering of stockpiles).
- Apply water to active earthwork areas, stockpiles and loads of soil being transported to reduce dust.
- Restrict traffic to defined roads and implement a speed limit.
- Cease work if excess fugitive dust is observed, or phase down while the source is being actively investigated and suppression measures are implemented.

### Noise – Minimize noise impacts on the community

- Ensure equipment is properly maintained.
- Provide special attention to the use and maintenance of “noise control” or “silencing” kits if fitted to machines to ensure they perform as intended.
- Avoid any unnecessary noise when carrying out construction activity.
- Ensure any equipment not in use for extended periods are switched off.
- Establish a management procedure to deal with noise complaints that may arise from construction activities. Each complaint would need to be investigated and appropriate noise attenuation measures put in place to mitigate future occurrences, where the noise in question is in excess of allowable limits.
- Consider the implementation of time restrictions and/or provide respite periods for residents where excessive noise cannot be avoided.

### Landform, Geology, and Soils – Erosion and sediment control

- Construct earth berm and similar diversion drains around the perimeter of any excavations to prevent surface water entering these areas.
- Ensure the working face and areas of open excavation are kept to a minimum.
- Minimize stockpiling by coordinating excavation, spreading, regading, compaction and importation activities.
- Where appropriate, apply water to active earthwork areas, stockpiles and loads of soil being transported to reduce dust.
- Cover stockpiles as required where material is to remain on site for a long period of time.
- Cease work if excess fugitive dust is observed, or phase down while the source is being actively investigated and suppression measures are implemented.
- Install temporary erosion and sediment control structures such as staked straw bales and silt fences to prevent the movement of sediment away from stockpiles and construction areas.
- Restrict traffic, where possible, to defined roads and tracks.
- Retain a temporary sediment basin or sump of appropriate size during placement of engineered fill on the benzene saturation plant site to collect runoff, minimize ponding in

and facilitate drying of the filling area, and to allow accumulated water to be pumped out as required.

- Ensure appropriate and timely disposal of any contaminated spoil, water or waste generated during construction.
- Remove accidental spills of soil or other material on roadways or gutter before each day's work is complete.
- Berm fuel or chemical storage areas.
- Inspect construction vehicles and equipment to ensure no leaks are occurring.
- Inspect erosion control structures and bermed areas.
- Inspect and maintain stormwater discharge points to drainage lines to minimize the potential for soil contamination and erosion.
- Inspect and test containment areas, drainage lines and process pipe work for spills and leaks. Repair any leaks immediately as part of ongoing maintenance.

#### Groundwater – Protect groundwater quality

- Direct groundwater accumulated in excavations to natural drainage.

Hydrology and Surface Water Quality – Minimize impact on surface water quality to protect natural ecosystems

- Develop and implement a Soil and Water Management Plan (SWMP) based on the construction and operation phase of the project. Incorporate the plan into the Construction and Operational best management practices the project.
- Minimize spoil and waste stockpiles by coordinating excavation activities.
- Ensure appropriate and timely disposal of any contaminated soil, water or wastewater either through existing on-site disposal avenues (WWTP) to sanitary sewer.
- Minimize on-site vehicle activity on disturbed surfaces during and after wet weather events.
- Ensure pavement and drainage systems are clear functional to prevent outflow of potentially contaminated stormwater from the site.

#### Traffic – Minimize traffic impacts

- Ensure worker vehicles are parked in authorized areas.
- Establish dedicated access points into and out of the construction site.
- Identify designated transport routes for heavy trucks to be used over the duration of the proposed works.
- Schedule vehicle movements to ensure that there are no vehicles waiting off-site and impeding public traffic.

## CHAPTER 5 - CORRESPONDENCE

Sample Letter to Agencies

### Agency Responses

1. Indiana Department of Natural Resources (IDNR)
2. U.S. Department of Interior: Fish and Wildlife (US F&WS)
3. U.S. Department of Agriculture: Natural Resource Conservation Service (NRCS)
4. U.S. Army Corps of Engineers (USACE)
5. Indiana State Department of Health (ISDH)
6. Wells County Health Department (WCHD)
7. Wells County Highway Department (WCH)
8. Wells County Area Plan Commission (WCAPC)
9. Indiana Department of Environmental Management (IDEM)
10. Indiana State Geological Survey (ISGS)
11. Indiana Department of Transportation (INDOT)
12. Northeastern Indiana Regional Coordinating Council (NIRCC)
13. Indiana State Historical and Preservation Office  
(This response is pending.)

The responses are on the following pages.



Indiana Rural Community Assistance Program  
1845 W. 18th Street  
Indianapolis, IN 46202

Michael Lautzenheiser Jr., AICP  
Executive Director  
Wells County Area Plan Commission  
223 W. Washington Street, Room 211  
Bluffton, IN 46714

January 3, 2011

Dear Mr. Lautzenheiser,

The Wells County Sewer District is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA, Rural Utilities service in order that it may assess the environmental impact of providing sewage collection facilities in the McKinney/Paxson area of Wells Co., Indiana for transmittal to the Wastewater Treatment facility in Bluffton, Indiana. The project is being proposed to improve the water quality of the area.

Residents of the area have experienced problems with individual on-site septic systems. Most of the soils in the area are considered "severe" in that they have poor filtering capabilities and are subject to high ground water levels. The septic systems do not, in most cases, allow for adequate separation from potable water wells. No new on-site septic systems have been approved in this area for several years. Water samples obtained by the County Health Department since 1999 consistently show elevated levels of e.coli bacteria, an indicator of improperly treated sewage from local septic systems. An Agreed Order was adopted on September 26, 2005 by the Indiana Department of Environmental Management that orders the Wells County Commissioners to "cease the inadequately treated discharges from septic tank systems...beginning with the McKinney/Paxson Ditch area."

The regional sewer district will design and install a collection system for delivery to the Bluffton Wastewater Treatment Facility. Enclosed is an U.S. Geological Survey map that depicts the proposal's area of potential effect for all construction activities and a description of the work involved.

The maps attached indicate the system site plan, force main route, and collection system piping. We would appreciate a response within 30 days. If you need further information or wish to discuss the project, please contact Vicki L. Perry at (317) 638-9302 or [vperry@incap.org](mailto:vperry@incap.org).

Sincerely,

Vicki L. Perry  
Director, Indiana RCAP

State of Indiana  
DEPARTMENT OF NATURAL RESOURCES  
Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR #: ER-16109 Request Received: January 12, 2012

Requestor: Indiana Rural Community Assistance Program  
Vicki L Perry  
1845 West 18th Street  
Indianapolis, IN 46202

Project: Installation of sewage collection facilities in the McKinney/Paxson area of Wells. Co. for transmittal to the Bluffton Wastewater Treatment Plant

County/Site info: Wells

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

Regulatory Assessment: This proposal may require the formal approval of our agency pursuant to the Flood Control Act (IC 14-28-1) to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than one square mile, unless it qualifies for a general license under Administrative Rule 312 IAC 10-5 that applies to utility line crossings (see enclosure). Please submit more detailed plans to the Division of Water's Technical Services Section if you are unsure whether or not a permit will be required. Also, please include a copy of this letter with the permit application if the project will be located in the floodway and does not meet the general license criteria.

Natural Heritage Database: The Natural Heritage Program's data have been checked. The following are comments regarding state endangered plant and animal species.  
1) The Bluntleaf Spurge (*Euphorbia obtusata*) has been recorded near the project area. Division of Nature Preserves does not anticipate any impacts to the plant resulting from the project.  
2) The Upland sandpiper (*Bartramia longicauda*) and Wabash river cruiser (*Macromia wabashensis*) have been recorded within 1/2 mile of the project area.

Fish & Wildlife Comments: Upland sandpiper records date back to 1917 and 1920, and recent observations for the species in the area are not known. Since the Upland sandpiper is a grassland species, removal of small forest patches as part of the project would not result in significant impacts to the bird.

Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

1) Riparian Habitat:

Impacts that remove trees from a non-wetland, riparian area should be mitigated. Impacts to non-wetland forest over one (1) acre should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees).

A native riparian forest mitigation plan should use at least 5 canopy trees and 5 understory trees or shrubs selected from the Woody Riparian Vegetation list (copy enclosed) or an approved equal. A native riparian forest mitigation plan for impacts of less than one acre in an urban area may involve fewer numbers of species and sizes of

Attachments: A - Utility Exemption Criteria

**State of Indiana  
DEPARTMENT OF NATURAL RESOURCES  
Division of Fish and Wildlife**

**Early Coordination/Environmental Assessment**

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trees, depending on the level of impact. Additionally, a native herbaceous seed mixture should be planted consisting of at least 10 species of grasses, sedges, and wildflowers selected from the Herbaceous Riparian Vegetation list (copy enclosed) or an approved equal.

**2) Stream Crossings**

We recommend that all creek or stream crossings be done using a trenchless method. If the open-trench method is necessary and the only feasible option at any of the planned stream crossings due to the site conditions, then the following measures should be implemented:

A) Any open-trench stream crossing should be timed to coincide with the low-water time of year (typically mid- to late-summer).

B) Restore disturbed streambanks using bioengineering bank stabilization methods and revegetate disturbed banks with native trees, shrubs and herbaceous plants. Stream bank slopes after project completion should be restored to stable-slope steepness (not steeper than 2:1).

C) The cleared width through any forested area should be the minimum needed to install the line and should be revegetated with container-grown native hardwood trees (planted at a 12' on-center spacing) and shrubs (planted between every other 12' on-center tree) to within 10ft of the centerline of the pipe after installation to allow the canopy to close over the line.

D) Equip directional drilling pits with erosion controls such as silt fence or other appropriate devices such that drilling mud does not leave the immediate area of the pit or enter the stream. Directional drilling pits shall be no closer than 15' from the tops of the banks for streams and rivers.

Additional measures that should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources, include the following:

1. Revegetate all bare and disturbed areas with a mixture of grasses (excluding all varieties of tall fescue), legumes, and native shrub and hardwood tree species as soon as possible upon completion.
2. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
3. Do not cut any trees suitable for Indiana bat roosting (greater than 3 inches dbh, living or dead, with loose hanging bark) from April 1 through September 30.
4. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
5. Inspect structural erosion and sediment control practices daily and repair as necessary until all construction is complete and disturbed areas are permanently stabilized.
7. Minimize and contain within the project limits all tree and brush clearing and provide the opportunity to utilize cleared trees of firewood and timber size.

THIS IS NOT A PERMIT

State of Indiana  
DEPARTMENT OF NATURAL RESOURCES  
Division of Fish and Wildlife

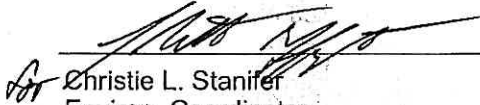
Early Coordination/Environmental Assessment

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Contact Staff:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife

Our agency appreciates this opportunity to be of service. Please do not hesitate to contact the above staff member at (317) 232-4160 or 1-877-928-3755 (toll free) if we can be of further assistance.



Christie L. Stanifer  
Environ. Coordinator  
Division of Fish and Wildlife

Date: January 25, 2012

Attachments: A - Utility Exemption Criteria

## ARTICLE 10. FLOOD PLAIN MANAGEMENT

### 312 IAC 10-2-42 "Utility line crossing" defined

Authority: IC 14-28-1-5; IC 14-28-3-2

Affected: IC 14-27-7; IC 14-28-1; IC 14-28-3

Sec. 42. "Utility line crossing" means the utility crosses the waterway in a straight line at an angle of between forty-five (45) degrees and one hundred thirty-five (135) degrees from the streambank and does not parallel the waterway for more than fifty (50) feet in the floodway before crossing unless the parallel portion of the line is contained within existing road right-of-way. (Natural Resources Commission; 312 IAC 10-2-42; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3389, eff Jan 1, 2002)

### Rule 5. General Licenses and Specific Exemptions from Floodway Licensing

#### 312 IAC 10-5-0.3 Determining project eligibility for a general license; general criteria

Authority: IC 14-10-2-4; IC 14-28-1-5

Affected: IC 14-28-1; IC 14-29-1

Sec. 0.3. (a) Except as provided in subsections (b) and (c), a project for a utility line crossing, the removal of logjams and obstructions, or the placement of outfall projects within a floodway is eligible for a general license if the project satisfies the requirements of this rule. For the removal of logjams and obstructions, these requirements include the procedures established by section 0.6 of this rule.

(b) Subsection (a) does not authorize a project in any of the following circumstances:

- (1) Within a river or stream listed in the Indiana Register at 16 IR 1677 in the Outstanding Rivers List for Indiana unless prior written approval from the division of water's environmental unit has been obtained,
- (2) Within a salmonid stream designated under 327 IAC 2-1.5-5(a)(3).
- (3) Within a natural, scenic, or recreational river or stream designated under 312 IAC 7-2.
- (4) For a utility line crossing, below the ordinary high watermark of a navigable waterway listed in the Indiana Register at 20 IR 2920 in the Roster of Indiana Waterways Declared Navigable or Nonnavigable unless the utility line is placed beneath the bed of the waterway under section 4(b) of this rule.
- (5) Where the project requires an individual permit from the United States Army Corps of Engineers under Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act.

(c) Subsection (a) does not authorize the removal of logjams or obstructions within one-half (1/2) mile of any of the following:

- (1) A species listed in the Indiana Register at 15 IR 1312 in the Roster of Indiana Animals and Plants Which Are Extirpated, Endangered, Threatened, or Rare.
- (2) A known mussel resource.
- (3) An outstanding natural area, as contained on the registry of natural areas maintained in the natural heritage data center of the department.

(d) The limitations contained in subsection (b) and subsection (c) [subsections (b) and (c)] do not apply to section 7 of this rule.

(Natural Resources Commission; 312 IAC 10-5-0.3; filed Aug 2, 2004, 3:18 p.m.: 27 IR 3875)

#### 312 IAC 10-5-2 General licensing for utility line crossings

Authority: IC 14-10-2-4; IC 14-28-1-5

Affected: IC 14-27-7; IC 14-28-1; IC 14-29-1

Sec. 2. Except as provided in sections 3 and 4 of this rule, a license is required under IC 14-28-1, IC 14-29-1, and 312 IAC 10-4 to place a utility line in or on a floodway where:

- (1) the drainage area of a river or stream is at least one (1) square mile at the downstream end of the line's floodway segment; or
- (2) a dam or levee regulated under IC 14-27-7 is affected.

(Natural Resources Commission; 312 IAC 10-5-2; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3394, eff Jan 1, 2002)

#### 312 IAC 10-5-3 Aerial electric, telephone, or cable television lines; general license

Authority: IC 14-10-2-4; IC 14-28-1-5

Affected: IC 14-28-1; IC 14-29-1; IC 14-29-6

Sec. 3. The placement of an aerial electric, telephone, or cable television line is authorized without a written license issued by the department under IC 14-28-1, IC 14-29-1, and 312 IAC 10-4 if:

- (1) the activity does not disturb the bed of the waterway beneath the line;
- (2) the activity conforms with the minimum clearance requirements of section 4(b)(9) of this rule;
- (3) the support mechanisms are located at least seventy-five (75) feet from the top of the bank; and
- (4) the utility line crossing is not within the floodway of a natural river, scenic river, or recreational river designated under 312 IAC 7-2.

(Natural Resources Commission; 312 IAC 10-5-3; filed Jul 5, 2001, 9:12 a.m.: 24 IR 3394, eff Jan 1, 2002; filed Aug 2, 2004, 3:18 p.m.: 27 IR 3876)



312 IAC 10-5-4 Qualified utility line crossings; general license

Authority: IC 14-10-2-4

Affected: IC 13-11-2-260; IC 14-27-7; IC 14-28-1-29; IC 14-33; IC 36-9-27

Sec. 4. (a) This section establishes a general license for the placement of a qualified utility line crossing in a floodway.

(b) A person who wishes to implement a project for the placement of a qualified utility line crossing on a river or stream, other than on a river or stream identified in section 0.3(b) or 0.3(c) of this rule, may do so without notice to the department if the project conforms to the following conditions:

(1) Tree removal and brush clearing shall be contained and minimized within the utility line crossing area. No more than one (1) acre of trees shall be removed within the floodway.

(2) Construction activities within the waterway from April 1 through June 30 shall not exceed a total of two (2) calendar days.

(3) Best management practices shall be used during and after construction to minimize erosion and sedimentation.

(4) Following the completion of construction, disturbed areas shall be reclaimed and revegetated. Disturbed areas shall be mulched with straw, wood fiber, biodegradable erosion blanket, or other suitable material. To prevent erosion until revegetated species are established, loose mulch shall be anchored by crimping, tackifiers, or netting. To the extent practicable, revegetation must restore species native to the site. If revegetation with native species is not practicable, revegetation shall be performed by the planting of a mixture of red clover, orchard grass, timothy, perennial rye grass, or another species that is approved by the department as being suitable to site and climate conditions. In no case shall tall fescue be used to revegetate disturbed areas.

(5) Disturbed areas with slopes of three to one (3:1) or steeper, or areas where run-off is conveyed through a channel or swale, shall be stabilized with erosion control blankets or suitable structural armament.

(6) No pesticide will be used on the banks.

(7) If a utility line transports a substance that may cause water pollution as defined in IC 13-11-2-260, the utility line will be equipped with an emergency closure system.

(8) If a utility line is placed beneath the bed of a river or stream, the following conditions are met:

(A) Cover of at least three (3) feet measured perpendicularly to the utility line is provided between the utility line and the banks.

(B) If the placement of a utility line is not subject to regulation under IC 14-28-1-29, IC 14-33, or IC 36-9-27, cover is provided as follows:

(i) At least three (3) feet, measured perpendicularly to the utility line, between the lowest point of the bed and the top of the utility line or its encasement, whichever is higher, if the bed is composed of unconsolidated materials.

(ii) At least one (1) foot, measured perpendicularly to the line, between the lowest point of the bed and the top of the utility line or its encasement, whichever is higher, if the bed is composed of consolidated materials.

(C) If the placement of the utility line is subject to regulation under IC 14-28-1-29, IC 14-33, or IC 36-9-27, cover is provided as follows:

(i) At least three (3) feet, measured perpendicularly to the utility line, between the design bed and the top of the line or its encasement, whichever is higher, if the bed is composed of unconsolidated materials.

(ii) At least one (1) foot, measured perpendicularly to the line, between the design bed and the top of the line or its encasement, whichever is higher, if the bed is composed of consolidated materials.

(D) Negative buoyancy compensation is provided where the utility line has a nominal diameter of at least eight (8) inches and transports a substance having a specific gravity of less than one (1).

(9) If a utility line is placed above the bed of a river or stream, the following conditions are met:

(A) Except as provided in clauses (B) and (C), minimum clearance is provided from the lowest point of the utility line (determined at the temperature, load, wind, length of span, and type of supports that produce the greatest sag) calculated as the higher of the following:

(i) Twelve and one-half (12½) feet above the ordinary high watermark.

(ii) Three (3) feet above the regulatory flood elevation.

(B) If the river or stream is a navigable waterway that is subject to IC 14-28-1, the utility line that crosses over the waterway must be placed to provide the greater of the following:

(i) The minimum clearance required under clause (A).

(ii) The minimum clearance required for the largest watercraft that is capable of using the waterway. The utility must consult in advance with the department to determine the minimum clearance for watercraft at the crossing.

(C) If a utility line is attached to or contained in the embankment of an existing bridge or culvert, no portion of the utility line or its support mechanism may project below the low structure elevation or otherwise reduce the effective waterway area.

(10) A utility line placed in a dam or levee regulated under IC 14-27-7 does not qualify for a general license under this subsection.

(c) A person who elects to act under this section must comply with the general conditions under subsection (b). Failure to comply with these terms and conditions may result in the revocation of the general license, a civil penalty, a commission charge, and any other sanction provided by law for the violation of a license issued under IC 14-28-1 and, if the waterway is navigable, the violation of a license issued under IC 14-29-1. (*Natural Resources Commission; 312 IAC 10-5-4; filed Jul 5, 2001, 9:12 a.m.; 24 IR 3394, eff Jan 1, 2002; filed Dec 26, 2001, 2:42 p.m.; 25 IR 1545; errata filed Mar 13, 2002, 11:51 a.m.; 25 IR 2521; filed Aug 2, 2004, 3:18 p.m.; 27 IR 3876*)



# United States Department of the Interior

## Fish and Wildlife Service



Bloomington Field Office (ES)  
620 South Walker Street  
Bloomington, IN 47403-2121  
Phone: (812) 334-4261 Fax: (812) 334-4273

January 17, 2012

Ms. Vicki Perry  
Indiana Rural Community Assistance Program  
1845 West 18<sup>th</sup> Street  
Indianapolis, Indiana 46202

Dear Ms. Perry:

This responds to your letter of January 3, 2012 requesting U.S. Fish and Wildlife Service (FWS) review of a proposed sewer system improvement project in Wells County, Indiana.

These comments are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation Policy.

Your letter states that the project involves installing sanitary sewer mains, connector sewers and grinder pumps and constructing an equalization basin, to convert homes in the McKinney/Paxson area from septic systems to centralized sewage treatment at the Bluffton wastewater treatment plant. The project list included with your letter indicates that 76 homes will be provided with sewer connections. All new sewer mains would be installed along existing roads, including SR 124 and 3 county roads.

The attached map shows 4 stream crossings, and your letter states that a fifth crossing of Porter Ditch would be required to service 4 homes not shown on the map. Four of the affected streams are very small headwater tributaries of the Wabash River in heavily disturbed areas; however Porter Ditch is larger than the others and flows through Ouabache State Park before entering the Wabash. All land on the south side of CR 100S is forested State Park land. We recommend the following measures to minimize physical impacts on streams and aquatic habitat:

1. Locate sewer lines on the side of roads that will result in the least clearing of native trees and shrubs, especially in riparian areas, and the least impacts to streams.
2. Install the sewer line on the north side of CR 100S.

3. Minimize erosion and cover or contain soil piles to prevent runoff to streams during construction. Stabilize disturbed stream banks as soon as possible after construction is completed. Revegetate with native plant species in areas that are currently dominated by natural vegetation.
4. For excavated stream crossings, work during periods of no stream flow or minimal flow.

#### Endangered Species

The proposed project is within the range of the federally endangered Indiana bat (*Myotis sodalis*). We concur that the proposed project is not likely to adversely affect this listed species. This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act of 1973, as amended. If project plans are changed significantly, please contact our office for further consultation.

For further discussion, please contact Mike Litwin at (812) 334-4261 ext. 205.

Sincerely yours,



Scott E. Pruitt  
Field Supervisor

cc: Max Henschen, Indiana State Revolving Fund Loan Programs, Indianapolis, IN 46204

United States Department of Agriculture



Natural Resources Conservation Service  
6013 Lakeside Blvd.  
Indianapolis, IN 46278

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February 2, 2012

Vicki L. Perry  
Director  
Indiana RCAP  
1845 W. 18<sup>th</sup> Street  
Indianapolis, IN 46202

Dear Ms. Perry:

The proposed project to install a collection system for delivery to the Bluffton Wastewater Treatment Facility in the City of Bluffton, Wells County, Indiana, as referred to in your letter received January 12, 2012, will not cause a conversion of prime farmland.

If you need additional information, please contact Lisa Bolton at 317-290-3200, extension 342.

Sincerely,

A handwritten signature in cursive script that reads "Jane E. Hardisty".

JANE E. HARDISTY  
State Conservationist

*Helping People Help the Land*

An Equal Opportunity Provider and Employer

**Vicki Perry**

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**From:** Estill, Leslie A LRL <Leslie.A.Estill@usace.army.mil>  
**Sent:** Thursday, February 09, 2012 11:06 AM  
**To:** Vicki Perry  
**Cc:** McKay, Gregory A LRL  
**Subject:** Sewage Collection Facilities in McKinney/Paxson area of Wells County, Indiana (UNCLASSIFIED)

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Classification: UNCLASSIFIED  
Caveats: NONE

Ms. Vicki Perry

This is in response to your request addressed to Mr. Greg McKay, dated January 3, 2012, concerning the proposal by the Wells County Sewer District to provide sewage collection facilities in the McKinney/Paxson area near Bluffton, Wells County, Indiana.

The Corps' comments for this proposal will be summarized in this email response. Based on my review of the information you submitted, wetlands and other waters of the U.S. may be impacted by the proposal. Any discharge of dredged or fill material into waters of the U.S., including wetlands, will require a Department of the Army (DA) permit under Section 404 of the Clean Water Act. In addition, a DA permit is required under Section 10 of the Rivers and Harbors Act of 1899 for the placement of any structure or work that takes place in, under, or over a navigable water.

If your project necessitates any regulated work in waters as described above, please submit a DA permit application six months prior to any work. The necessary permit application and additional information can be found on our website at <http://www.lrl.usace.army.mil> by clicking on "How do I...Obtain a Permit." Please do not hesitate to contact me if you have any questions or concerns.

Sincerely,

Leslie Estill  
Project Manager  
North Section  
Louisville District  
US Army Corps of Engineers  
Office Phone (502) 315-6711

Classification: UNCLASSIFIED  
Caveats: NONE



**Mitchell E. Daniels, Jr.**  
*Governor*

**Gregory N. Larkin, M.D., F.A.A.F.P.**  
*State Health Commissioner*

February 8, 2012

Vicki L. Perry, director  
Indiana RCAP  
1845 W. 18<sup>th</sup> Street  
Indianapolis, IN 46202

Dear Ms. Perry:

Re: Sewage Disposal  
McKinney/Paxson Area  
Wells County

The information provided to this agency by Heath Butz (Wells Co. Health Dept.), and visits to the area by my staff, indicates that inappropriate sewage system construction or lack of any individual sewage disposal systems are the major reasons for the sewage disposal problems acknowledged in the McKinney/Paxson Ditch area. Poor soil conditions, and in some cases density of development, private well locations, lot size, and lot configuration preclude the possibility of using individual onsite sewage disposal systems as a means of eliminating the existing sewage disposal problems in most of this area.

A community approach for collection of wastewater from the residences in the area to a central or decentralized treatment system is the optimal approach. System type will have to be determined after an engineered study is conducted and approved.

It is critical that the sewage disposal problems in the community be addressed as soon as possible. Any further delays will: 1) continue the existence of a public health hazard; 2) decrease the property values in the area; 3) hinder further development in this area; 4) increase project costs to the property owners due to inflation and the probability of further reductions in government funding and low-cost loans; and 5) may force the local health department to address health hazards individually through enforcement of state rules and statutes and local ordinances. These considerations will ultimately add to the cost and delay a comprehensive approach to the problem. In addition, concerns exist regarding the health and safety around or near the ditches and drainageways that contain documented sewage contamination. As you are aware, several infectious diseases can be contracted from contact with improperly treated sewage such as: Salmonellosis, Shigellosis, Dysentery, Polio, Hepatitis (Type A), Amebiasis, and Giardiasis to name a few. Pools of sewage can also provide ideal breeding places for the mosquitoes most likely to be responsible for the spread of St. Louis Encephalitis and West Nile Virus.

According to information from the United States Department of Agriculture, Natural Resource Conservation Service's Soil Survey and this agency, the opportunity to correct



many of the individual sewage disposal problems on site is severely limited by such conditions as soil removal, compaction, filling, poor filter, flooding, and/or a seasonal high water table within 34 inches of the soil surface. Moreover, this particular area is further hindered by the presence of glacial moraine characteristics in the soil.

It is obvious from our interpretation of the findings that the public health and economic impact that accompanies the resolution of a problem of this magnitude is far reaching and will affect most, if not all, of the residents living in the McKinney/Paxson Ditch area. We recognize that the local Regional Sewer District and the county health department can provide the catalyst needed to generate awareness and provide the focus that will be required in order to resolve this matter. We will continue to offer our support when needed and requested.

Please do not hesitate to contact this office if you have any questions.

Sincerely,



Michael Mettler, Director  
Environmental Public Health Division  
Phone 317/233-7173  
FAX 317/233-7047  
mmettler@isdh.in.gov

---

cc: Heath Butz, Wells County Health Dept.  
Wells County Regional Sewer District  
Alice Quinn, ISDH

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# Wells County Health Department

223 W. Washington, Suites 200-209  
Bluffton, Indiana 46714-1955  
Phone: (260) 824-6489 • Fax: (260) 824-8803

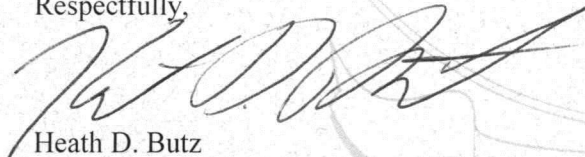
Date: February 7, 2011

Re: Regional Sewer District

Water samples were taken from the same ten locations in the McKinney Watershed on April 6, 1999 and October 28, 1999. Samples were taken again on November 13, 2008 at the request of the County Commissions to verify the results of earlier sampling. All sampling results showed significantly elevated counts of E. Coli bacteria, an indication of improperly treated sewage from local septic systems. The Wells County Health Department has observed and documented discharges of sewage into the McKinney and Paxson Ditches, county drainage ditches, which then flow to the Wabash River.

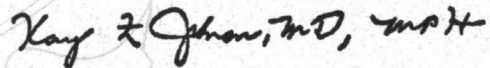
Inadequate septic systems and poor soil conditions are the main issues of concern in the McKinney/Paxson Watershed Area. The majority of soils in Wells County according to the "Soil Survey of Wells County, Indiana" are very poorly drained and considered severe or unsuitable for septic systems. The McKinney/Paxson Watershed Area is located in the Wabash Recessional Moraine which has some of the most restrictive soils in the county. On-site sewage systems have failed prematurely in these moraine soils. The Wells County Health Department supports the work of the Regional Sewer District and encourages the installation of sanitary sewer within this district in order to address the issues of concern.

Respectfully,



Heath D. Butz  
Environmental Health Specialist

Respectfully,



Kay L. Johnson, M.D.  
Health Officer



## Vicki Perry

---

**From:** Ed Herman <highway@wellscounty.org>  
**Sent:** Wednesday, February 08, 2012 3:23 PM  
**To:** 'Diana L.Toth'  
**Subject:** RE: Wells County Regional Sewer District

Diana,  
Thanks for all the information about the Wells County RDS project. Keep me informed about the progress of this project. Ed Herman Wells County Highway Supervisor

**From:** Diana L.Toth [<mailto:ditoth@dlz.com>]  
**Sent:** Tuesday, February 07, 2012 8:56 AM  
**To:** 'highway@wellscounty.org'  
**Subject:** Wells County Regional Sewer District

Mr. Ed Herman,  
Wells County Highway Supervisor  
1600 W. Washington St.  
Bluffton, IN 46714

Dear Ed,  
Per our telephone conversation this morning we discussed that the Wells County Regional Sewer District (RSD) plans to submit a District Plan and an Environmental Report to the USDA Rural Development for load application. Prior to completion of final construction plans, the RSD will submit to you and/or meet with you to discuss sewers proposed to be located within County road rights-of-way. Also, prior to construction, required road permits will be obtained through your office. We want to make sure concerns of how the placement of added utilities in the rights-of-way may affect the future roadway maintenance.

Thanks for taking time to discuss the project with me. Please respond to this email so that we can document it as part of the Environmental Report for the District Plan.

Diana

**Diana L.Toth** | Civil Engineer

260-420-3114 x6610 (office)  
[dltoth@dlz.com](mailto:ditoth@dlz.com) | [www.dlz.com](http://www.dlz.com)



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**Diana L.Toth**

---

**From:** Michael Jr. Lautzenheiser [gis@wellscounty.org]  
**Sent:** Monday, February 06, 2012 1:12 PM  
**To:** Diana L.Toth  
**Subject:** Comp Plan For Mckinnie / Paxson Area  
**Attachments:** Wells County Comprehensive Plan 1993.pdf

Our comprehensive plan states that this area is designated for farming. It does also state that all residences should be located on large tracts to provide or a low housing density, wells, and septic systems. With the addition of public sewers this area could be considered for other forms of residential development as Bluffton or Vera Cruz grows.

Attached is a copy of our comprehensive plan.

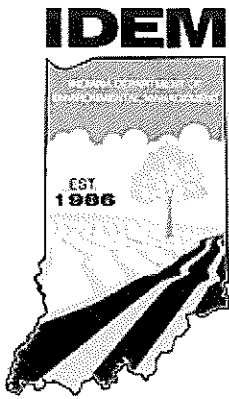
Sincerely,

**Michael W. Lautzenheiser Jr., AICP**

Wells County, IN  
APC Director / GIS Manager  
EMAIL: [GIS@wellscounty.org](mailto:GIS@wellscounty.org)  
PH: (260) 824-6407  
FAX: (260) 824-6415

Address:  
Wells County Area Plan Commission  
223 W Washington St  
Bluffton, IN 46714

Web:  
PUBLIC GIS PORTAL: [www.wellscountygis.org](http://www.wellscountygis.org)  
GIS OFFICE: [www.wellscounty.org/gis.htm](http://www.wellscounty.org/gis.htm)  
APC OFFICE: [www.wellscounty.org/apc.htm](http://www.wellscounty.org/apc.htm)



## Indiana Department of Environmental Management

*We make Indiana a cleaner, healthier place to live.*

Mitchell E. Daniels, Jr.  
Governor

100 North Senate Avenue  
Indianapolis, Indiana 46206

Thomas W. Easterly  
Commissioner

(317) 232-8603  
800) 451-6027  
www.IN.gov/idem

Wells County Regional Sewer District  
Glenn Ryan  
1001 Sycamore Lane  
Bluffton, IN 46714

Indiana RCAP  
Vicki L. Perry  
1845 W. 18th St.  
Indianapolis, IN 46202

Tuesday, January 10, 2012

Dear Grant Administrator or Other Finance Approval Authority:

RE: The Wells County Regional Sewer District is seeking a USDA-RUS Loan and Grant in the amount of \$1,744,000 for the construction of a sewage collection system. The project will expand the current system to connect all the homes in the area, which is under Agreed Order by IDEM, and is located in Harrison and Lancaster Townships in an unincorporated area east of the City of Bluffton. This area includes homes on the north and south side of S.R. 124 from the Bluffton corporate limits west to 500 E, homes along 500 E and S.R. 201, homes along Elm Grove and several homes on 100 S. The proposed project includes collection of wastewater with a combination of gravity sewer, grinder pumps, small diameter force main with discharge to the City of Bluffton for treatment at their wastewater treatment plant.

The Indiana Department of Environmental Management (IDEM) is aware that many local government or not-for-profit entities are seeking grant monies, a bond issuance, or another public funding mechanism to cover some portion of the cost of a public works, infrastructure, or community development project. IDEM also is aware that in order to be eligible for such funding assistance, applicants are required to first evaluate the potential impacts that their particular project may have on the environment. In order to assist applicants seeking such financial assistance and to ensure that such projects do not have an adverse impact on the environment, IDEM has prepared the following list of environmental issues that each applicant must consider in order to minimize environmental impacts in compliance with all relevant state laws.

IDEM recommends that each applicant consider the following issues when moving forward with their project. IDEM also requests that, in addition to submitting the information requested above, each applicant also sign the attached certification, attesting to the fact that they have read the letter in its entirety, agree to abide by the recommendations of the letter, and to apply for any permits required from IDEM for the completion of their project.

IDEM recommends that any person(s) intending to complete a public works, infrastructure, or community development project using any public funding consider each of the following applicable recommendations and requirements:

## WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see [USACE Permits and Public Notices \(http://www.lrl.usace.army.mil/orf/default.asp\)](http://www.lrl.usace.army.mil/orf/default.asp) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciusko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at <http://www.in.gov/idem/4396.htm>. IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality. To learn more about the water quality certification program, visit: <http://www.in.gov/idem/4384.htm>.
3. If the USACE determines that a wetland or other body of water is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A state isolated wetland permit from IDEM's Office of Water Quality is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the Office of Water Quality at 317-233-8488.
4. If your project will impact more than 0.5 acres of wetland, stream relocation, or other large-scale alterations to bodies of water such as the creation of a dam or a water diversion, you should seek additional input from the Office of Water Quality, Wetlands staff at 317-233-8488.
5. Work within the one-hundred year floodway of a given body of water is regulated by the Department of Natural Resources, Division of Water. Contact this agency at 317-232-4160 for further information.
6. The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.
7. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality – Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
  - <http://www.in.gov/idem/4902.htm>

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (<http://www.in.gov/idem/4917.htm#constreq>), and as described in 327 IAC 15-5-6.5 (<http://www.in.gov/legislative/iac/T03270/A00150> [PDF], pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (<http://www.in.gov/isda/soil/contacts/map.html>).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements.

All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: <http://www.in.gov/idem/4900.htm>.

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

8. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources - Division of Fish and Wildlife (317-232-4080) for additional project input.
9. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality - Drinking Water Branch (317-308-3299) regarding the need for permits.
10. For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality - Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
11. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality - Permits Branch (317-232-8675) regarding the need for permits.

## AIR QUALITY

The above-noted project (see page 1) should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed under specific conditions (<http://www.in.gov/idem/4148.htm>). You also can seek an open burning variance from IDEM.

IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on-site. You must register with IDEM if more than 2,000 pounds is to be composted; contact 317-232-0066. The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) on-site, although burying large quantities of such material can lead to subsidence problems.

2. Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

If construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for three to five years, precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus *Histoplasma capsulatum*, which stems from bird or bat droppings that have accumulated in one area for three to five years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at 317-233-7272.

3. The U.S. EPA and the U.S. Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. For a county-by-county map of predicted radon levels in Indiana, visit <http://www.in.gov/idem/4267.htm>.

The U.S. EPA further recommends that all homes and apartments (within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L or higher, then U.S. EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L or higher, then U.S. EPA recommends the installation of radon-reduction measures. For a list of qualified radon testers and radon mitigation (or reduction) specialists, visit [http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon\\_testers\\_mitigators\\_list.pdf](http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf). Also, it is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure, visit <http://www.in.gov/isdh/regsvcs/radhealth/radon.htm>, <http://www.in.gov/idem/4145.htm>, or <http://www.epa.gov/radon/index.html>.

4. With respect to asbestos removal, all facilities slated for renovation or demolition (except residential buildings that have four (4) or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM)

that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

In all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at [www.in.gov/icpr/webfile/formsdiv/44593.pdf](http://www.in.gov/icpr/webfile/formsdiv/44593.pdf).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. Billings will occur on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: <http://www.in.gov/idem/4983.htm>.

5. With respect to lead-based paint removal, IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal, visit <http://www.in.gov/idem/permits/guide/waste/leadabatement.html>.
6. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months of April through October. See 326 IAC 8-5-2, Asphalt Paving Rule (<http://www.ai.org/legislative/iac/103260/A00080.PDF>).
7. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 ([www.ai.org/legislative/iac/103260/a00020.pdf](http://www.ai.org/legislative/iac/103260/a00020.pdf)). New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
8. For more information on air permits, visit <http://www.in.gov/idem/4223.htm>, or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or oamprod at idem.in.gov.

## LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ) at 317-308-3103.
2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit <http://www.in.gov/idem/4998.htm>.
3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
4. If Polychlorinated Biphenyls (PCBs) are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes. (Asbestos removal is addressed above, under Air Quality.)
6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317-308-3039 (<http://www.in.gov/idem/4999.htm>).

## FINAL REMARKS

Should the applicant need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8

requires that they notify all adjoining property owners and/or occupants within ten days of your submittal of each permit application. Applicants seeking multiple permits, may still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Please note that this letter does not constitute a permit, license, endorsement, or any other form of approval on the part of either the Indiana Department of Environmental Management or any other Indiana state agency.

Should you have any questions relating to the content or recommendations of this letter, or if you have additional questions about whether a more complete environmental review of your project should be conducted, please feel free to contact Brad Baughn at (317) 234-3386, [BBaughn@idem.in.gov](mailto:BBaughn@idem.in.gov).

Sincerely,



Thomas W. Easterly  
Commissioner

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## Signature(s) of the Applicant

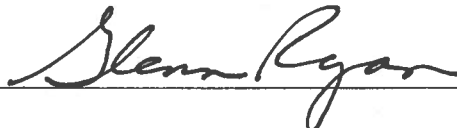
I acknowledge that I am seeking grant monies, a bond issuance, or other public funding mechanism to cover some portion of the cost of the public works, infrastructure, or community development project as described herein, which I am working (possibly with others) to complete.

## Project Description

The Wells County Regional Sewer District is seeking a USDA-RUS Loan and Grant in the amount of \$1,744,000 for the construction of a sewage collection system. The project will expand the current system to connect all the homes in the area, which is under Agreed Order by IDEM, and is located in Harrison and Lancaster Townships in an unincorporated area east of the City of Bluffton. This area includes homes on the north and south side of S.R. 124 from the Bluffton corporate limits west to 500 E, homes along 500 E and S.R. 201, homes along Elm Grove and several homes on 100 S. The proposed project includes collection of wastewater with a combination of gravity sewer, grinder pumps, small diameter force main with discharge to the City of Bluffton for treatment at their wastewater treatment plant.

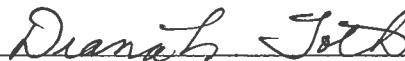
With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environmental Management that appears directly above. In addition, I understand that in order to complete the project in which I am interested, with a minimum impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Dated Signature of the Public Owner  
Contact/Responsible Elected Official



Glenn Ryan

Dated Signature of the Project  
Planner/Consultant Contact Person



Vicki L. Perry

Project No. \_\_\_\_\_ Des. No. \_\_\_\_\_

Project Description: Wells County Regional Sewer District's Proposed McKinney/Paxson Sewage Collection Project, Wells County, Indiana

Name of Organization requesting early coordination:

Indiana Rural Community Assistance Program

**QUESTIONNAIRE FOR THE INDIANA GEOLOGICAL SURVEY**

1) Do unusual and/or problem ( ) geographic, ( ) geological, ( ) geophysical, or ( ) topographic features exist within the project limits? Describe:  
No, and these improvements should not affect, nor be affected, the geology of the area.

2) Have existing or potential mineral resources been identified in this area? Describe:  
None

3) Are there any active or abandoned mineral resources extraction sites located nearby? Describe: None

This information was furnished by:

Name: Robin Rupp Title: Geologist

Address: 611 North Walnut Grove, Bloomington, IN 47405

Phone: 812-855-7428 Date: February 11, 2012



## Vicki Perry

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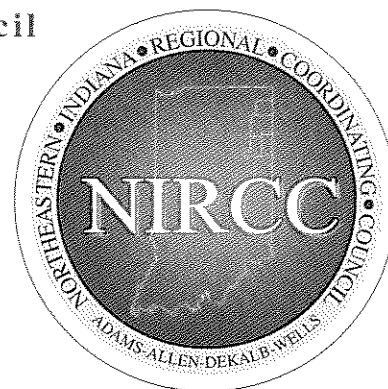
**From:** Lawrence, Ben <BLAWRENCE@indot.IN.gov>  
**Sent:** Friday, January 13, 2012 9:04 AM  
**To:** Vicki Perry  
**Cc:** Kaiser, Jason  
**Subject:** Wells County Sewer District, McKinney/Paxson Sanitary Sewer Installation Project

Ms. Perry,

Thank you for the opportunity to review and comment on the proposed sanitary sewer installation in the McKinney/Paxson Ditch area of Wells County. INDOT does not have any comment on the environmental impacts of this project. However, please note that installation of utilities along SR 201 and SR 124 will require coordination with our Fort Wayne District Office's utility coordinator and permits engineer. You may reach the district office at 1-866-227-3555.

**Ben Lawrence, PE**  
Environmental Policy Manager  
Indiana Department of Transportation  
317-233-1164

Northeastern Indiana Regional Coordinating Council



January 23, 2012

Vicki L. Perry, Director  
Indiana Rural Community Assistance Program  
1845 W. 18<sup>th</sup> Street  
Indianapolis, IN 46202

RE: Wells County Regional Sewer District's Proposed McKinney/Paxson Sewage  
Collection Project  
Harrison and Lancaster Townships, Wells County, Indiana

Dear Ms. Perry:

Members of our staff reviewed your letter dated January 3, 2012 concerning the environmental review process for the Wells County Regional Sewer District's Proposed McKinney/Paxson Sewage Collection Project. We have the following comments relating to this project.

*A Natural Gas Pipeline runs NE/SW crossing Elm Grove Rd, SR 124, and N 450 E within the McKinney/Paxson Service Area.*

**PIPELINES (IGS) --**

Natural Gas, Crude Oil, and Refined Oil Pipelines, 1988 (1:63,360)

Shows the locations and extents of known natural gas, crude oil, and refined products pipelines.

Digitized from data compiled for the creation of the following published map: Indiana Geological Survey Miscellaneous Map 53.

FGDC metadata: [PIPELINES\\_IGS\\_IN](#)

*There are two confined feeding operations located on the south side of SR 124 about 1600-1700 ft east of SR 201 and one confined feeding operation located on the east side of S 500 E about 1500 ft north of E 100 S.*

**CONFINED FEEDING OPERATIONS --**

Confined Feeding Operation Facilities, 2010 (Source scale is unknown)

Shows swine, chicken, turkey, beef or dairy agribusinesses that have large enough numbers of animals that IDEM regulates for environmental concerns, as defined by IC 13-18-10 of the Indiana Code.

Provided by personnel of the Indiana Department of Environmental Management, Office of Land Quality.

Data are current as of April 16, 2010.

FGDC metadata: [CONFINED FEEDING OPERATIONS IDEM IN](#)

*There are two areas listed under Managed Lands that are within the southern boundary of the McKinney/Paxson Service Area. The Bluffton Wetlands are located on the south side of Elm Grove Rd and west of S 450 E. Ouabache State Park is located on the south side of E 100 S and the east and west side of SR 201.*

**MANAGED LANDS --**

Managed Lands, 20100920 (1:24,000)

Shows natural and recreation areas which are owned or managed by the Indiana Department of Natural Resources. In addition, some lands are included that are owned by federal agencies, local agencies, non-profit organizations, and conservation easements. For additional information regarding these lands, persons should contact the IDNR Indiana Natural Heritage Data Center (317-232-4052).

Attributes include property names, owners, managing entities, acreages, access, and other information.

Provided by personnel of the Indiana Natural Heritage Data Center, Indiana Department of Natural Resources, on September 20, 2010.

FGDC metadata: MANAGED LANDS IDNR IN

*The Elm Grove Cemetery is located on the south side of SR 124 about 700 ft east of Elm Grove Rd.*

**CEMETERIES --**

Cemeteries, 2002 (1:24,000)

Shows the locations of cemeteries.

Extracted from the Geographic Names Information System (GNIS) of the U.S. Geological Survey. The dataset contains cemeteries named on 1:24,000 quadrangles. Unnamed cemeteries in some southwestern counties were added from 1:24,000 quadrangles by Bernardin, Lochmueller and Associates, Inc.

FGDC metadata: CEMETERIES USGS BLA IN

*Parts of Elm Grove Rd, SR 124, and SR 201 are within a Floodplain.*

**FLOODPLAINS - DFIRM --**

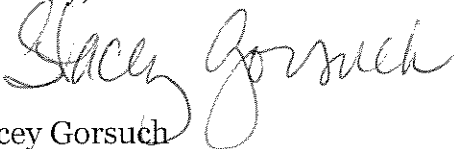
Floodplains - Flood Rate Insurance Maps (DFIRM), 2004 (1:12,000)

Shows floodplains created from FEMA Flood Rate Insurance Maps (FIRM). The FIRM is the basis for floodplain management, mitigation, and insurance activities for the National Flood Insurance Program (NFIP). The Digital Flood Insurance Rate Map (DFIRM) Database is derived from Flood Insurance Studies (FIS), previously published Flood Insurance Rate Maps (FIRM), flood hazard analyses performed in support of the FIS's and FIRM's, and new mapping data, where available. This database is an interim version of the DFIRM Database and does not fully meet all DFIRM specifications. These floodplain data may be used with an associated base-flood-elevation line shapefile and cross-sections line shapefile.

FGDC metadata: FLOODPLAINS DFIRM IDNR IN

Thank you for the opportunity to comment on this project. If you have any questions concerning our comments, please do not hesitate to contact our office.

Sincerely,



Stacey Gorsuch  
Principal Transportation Planner

## **CHAPTER 6 - EXHIBITS/MAPS**

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- Figure 2 – Alternative 1 New Pump Station & Force Main to Bluffton WWTP
- Figure 3 – Alternative 2 Upgrade Pump Station & New Force Main to Bluffton WWTP
- Figure 4 – Alternative 3 Wastewater Treatment Plant
- Figure 5 – Alternative 4 Lagoon Treatment System
- Figure 6 – Alternative 5 Gravity & Force Main Along SR 124 w/ Discharge to Bluffton Collection System
- Figure 7 – Project Area Soil Map
- Figure 8 – Project Area Floodplain Map
- Figure 9 – Project Area Wetlands Map

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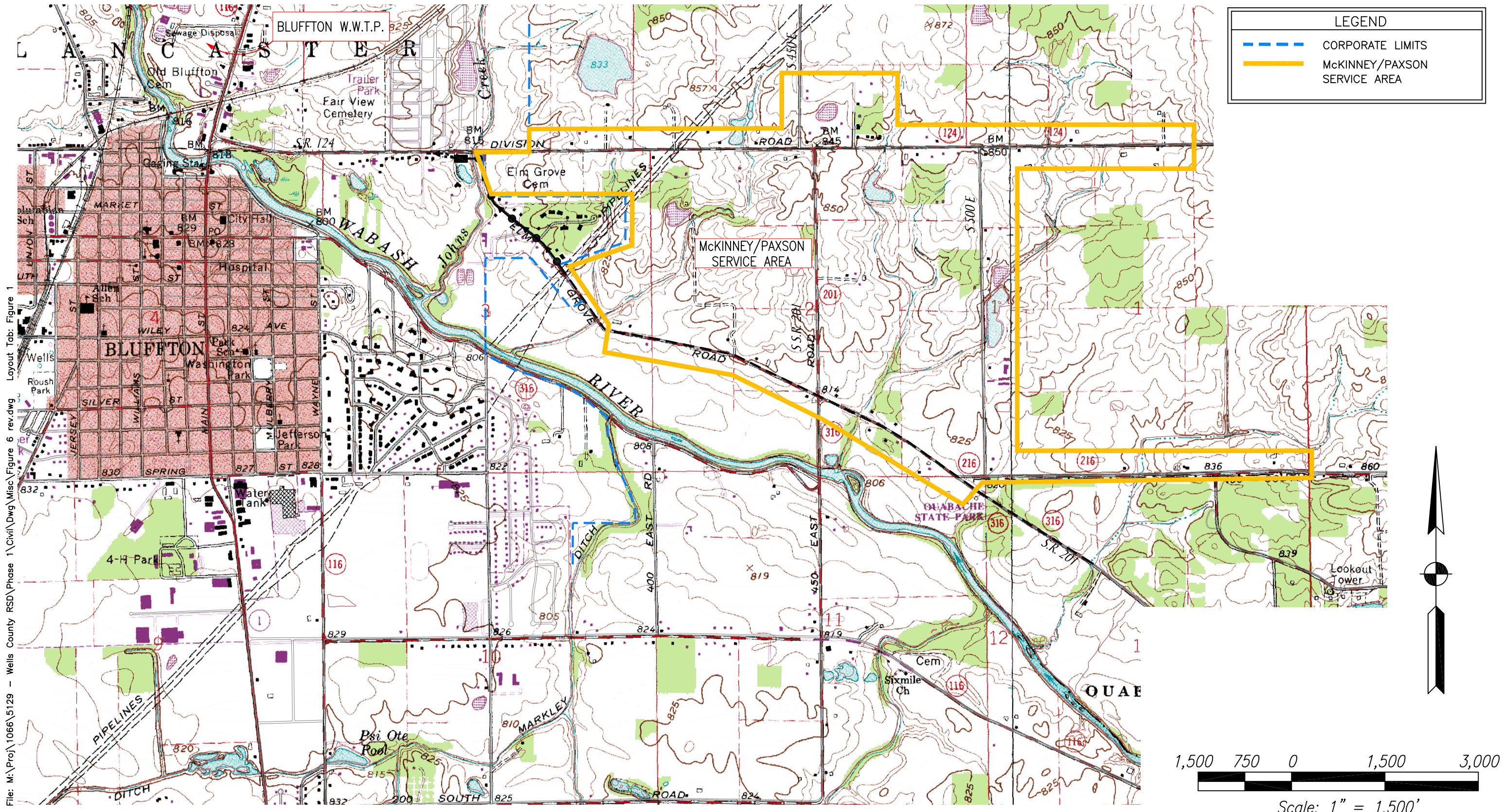
- Table 6-1 Alternative 1 – New Pump Station (Vera Cruz + M/P Area) to Bluffton WWTP
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- Table 6-3 Alternative 3 – WWTP with Discharge to Wabash River
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- Table 6-4 Alternative 4 – Lagoon System with Discharge to Wabash River
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- Table 7-1 Selected Plan Cost Summary
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- Appendix 2 - ISDH Water Analysis of Streams in Watershed, 1999, 2008, 2011
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- Appendix 4 – IDEM Regional Sewer District Formation Order, June 3, 2009
- Appendix 5 – Letter from Wells County Health Department, February 7, 2011

# FIGURES





File: M:\Proj\1066\5129 - Wells County RSD\Phase 1\Civil\Drawg\Misc\Figure 6 rev.dwg Layout Tab: Figure 1



FIGURE 1 – PROJECT LOCATION MAP 2012  
 USGS QUADRANGLE MAP  
 BLUFFTON, IND.  
 WELLS COUNTY REGIONAL SEWER DISTRICT



File: M:\Proj\1066\5129 - Wells County RSD\Phase 1\Civil\Dwg\Misc\Figure 6 rev.dwg Layout Tab: Figure 2 - ALT. 1

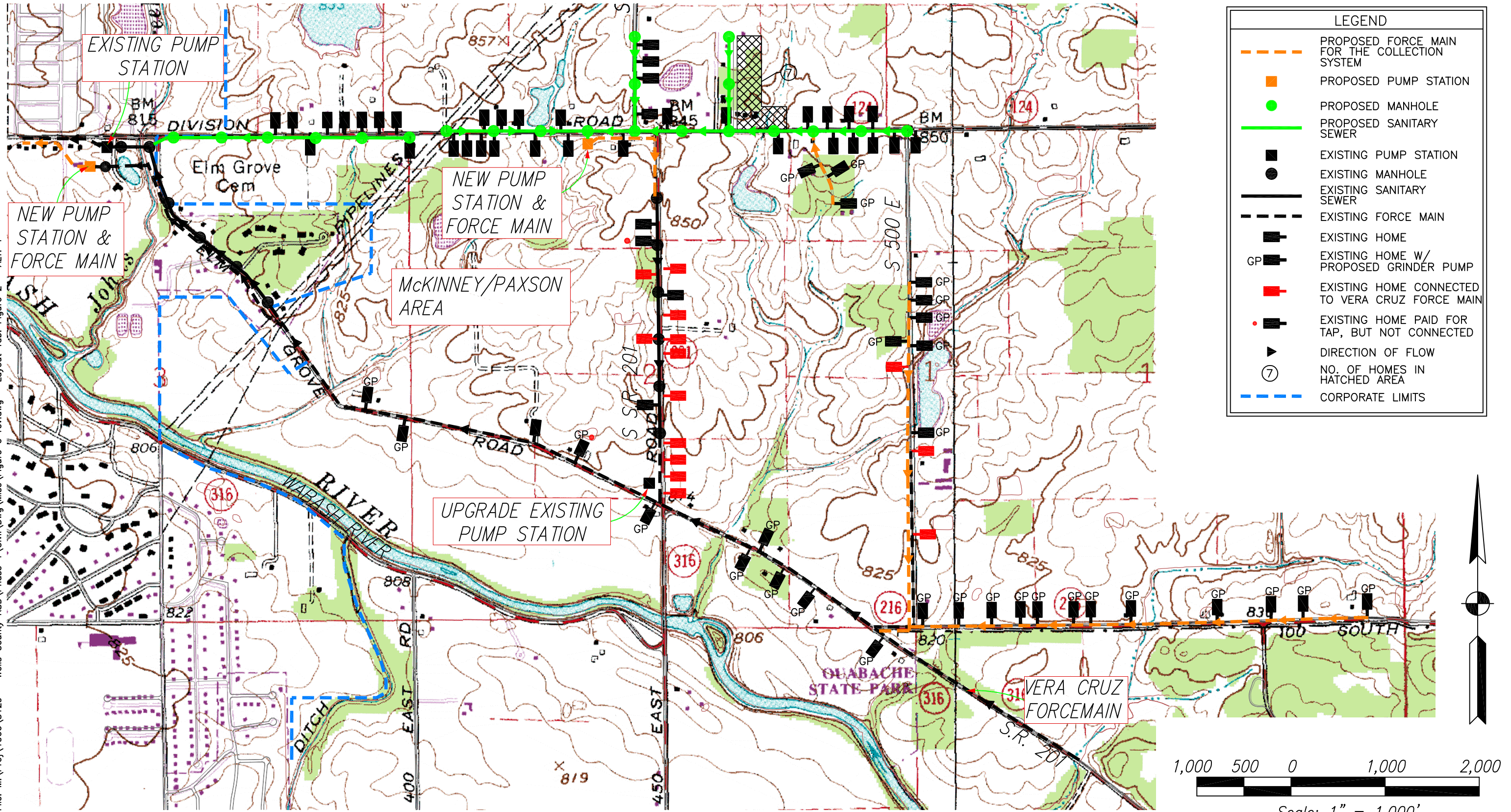


FIGURE 2 – COLLECTION SYSTEM MAP 2012  
 MCKINNEY/PAXSON AREA  
 WELLS COUNTY REGIONAL SEWER DISTRICT  
 ALT. 1 – NEW PUMP STATION & FORCE MAIN TO BLUFFTON WWTP



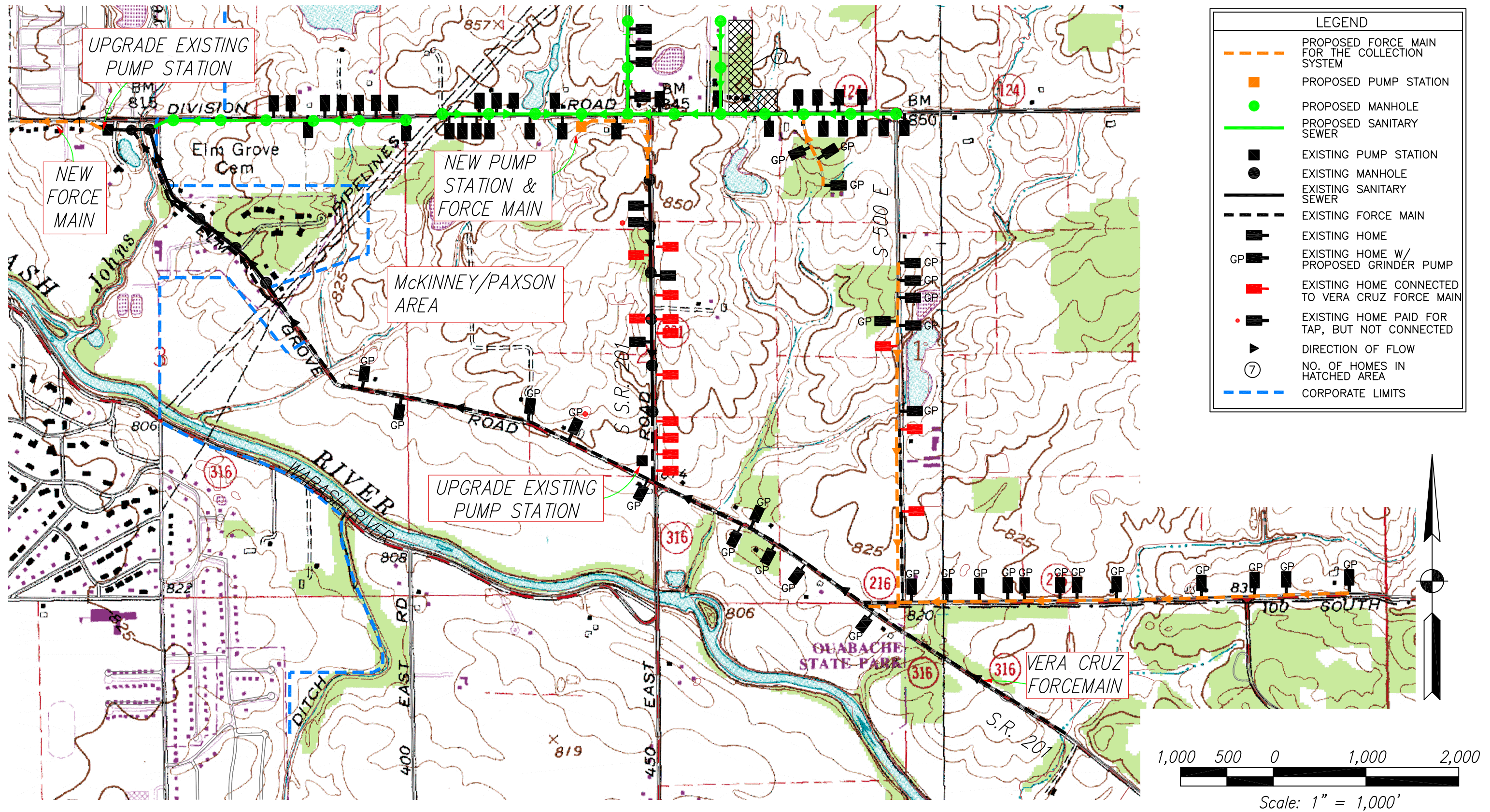


FIGURE 3 – COLLECTION SYSTEM MAP 2012  
 MCKINNEY/PAXSON AREA  
 WELLS COUNTY REGIONAL SEWER DISTRICT  
 ALT. 2 – UPGRADE PUMP STATION & NEW FORCE MAIN TO BLUFFTON WWTP





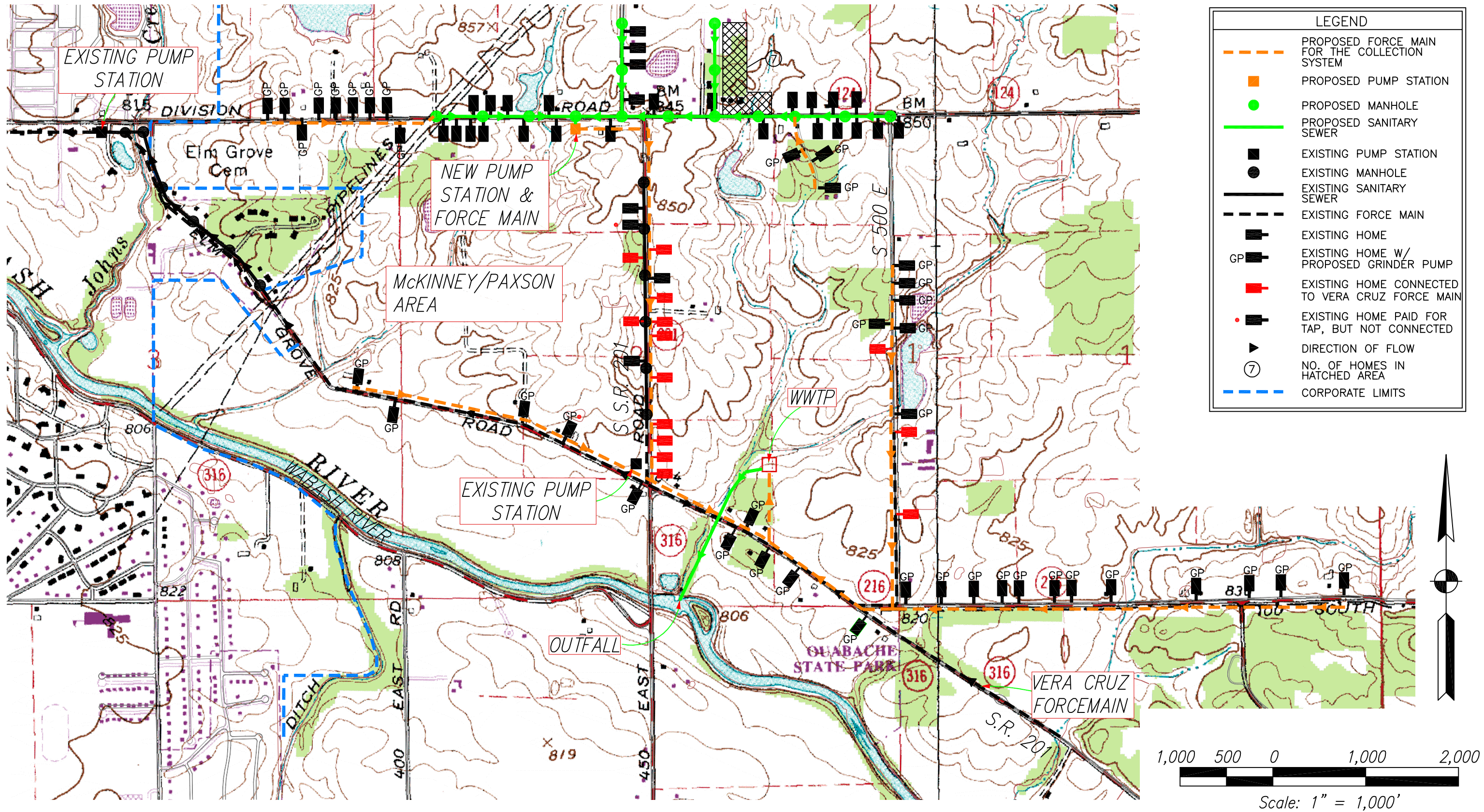


FIGURE 4 – COLLECTION SYSTEM MAP 2012  
 MCKINNEY/PAXSON AREA  
 WELLS COUNTY REGIONAL SEWER DISTRICT  
 ALT. 3 – WASTEWATER TREATMENT PLANT



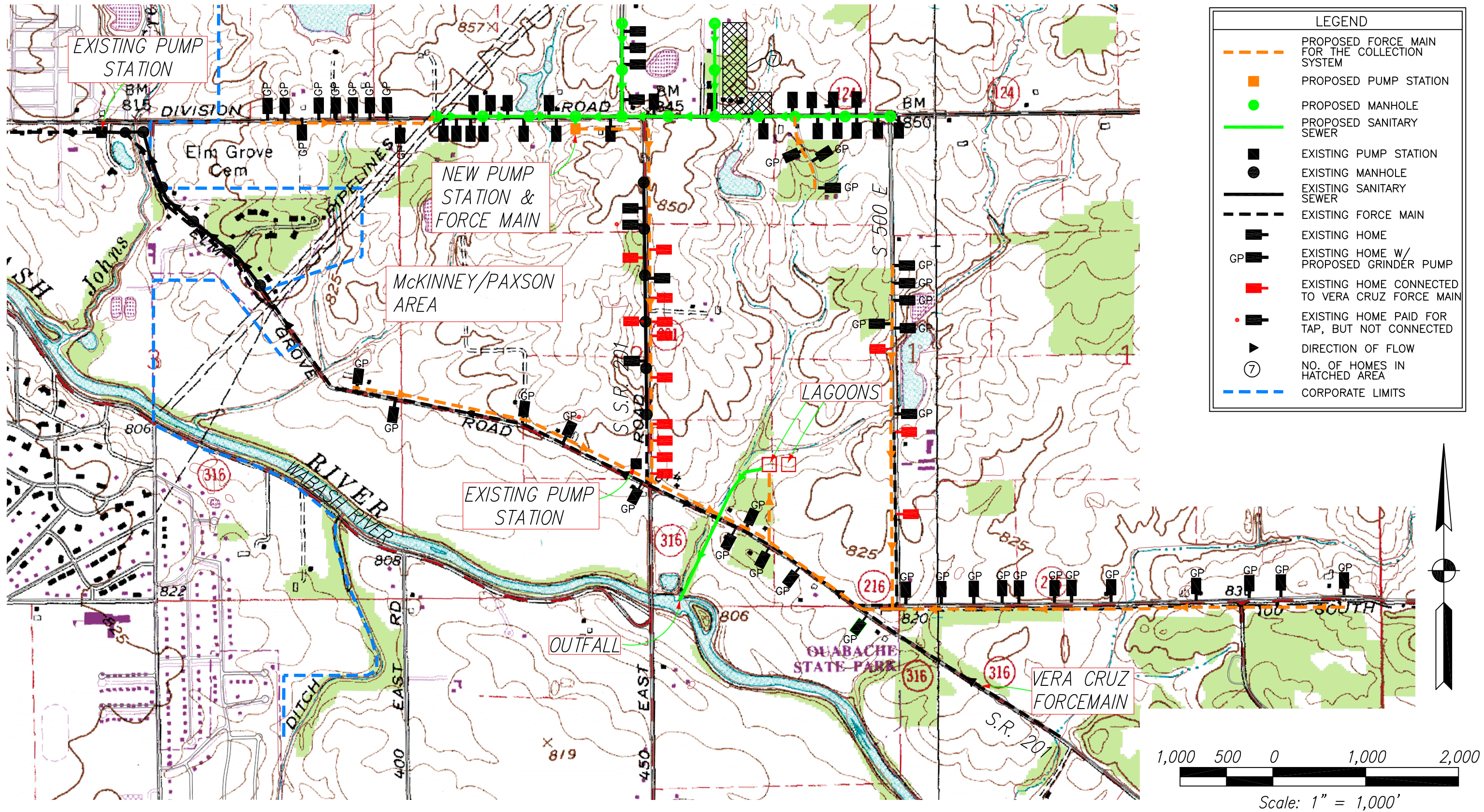


FIGURE 5 – COLLECTION SYSTEM MAP 2012  
 MCKINNEY/PAXSON AREA  
 WELLS COUNTY REGIONAL SEWER DISTRICT  
 ALT. 4 – LAGOON TREATMENT SYSTEM



File: M:\Proj\1066\5129 - Wells County RSD\Phase 1\Civil\Draw Misc\Figure 6 rev.dwg Layout Tab: Figure 6 - ALT. 5

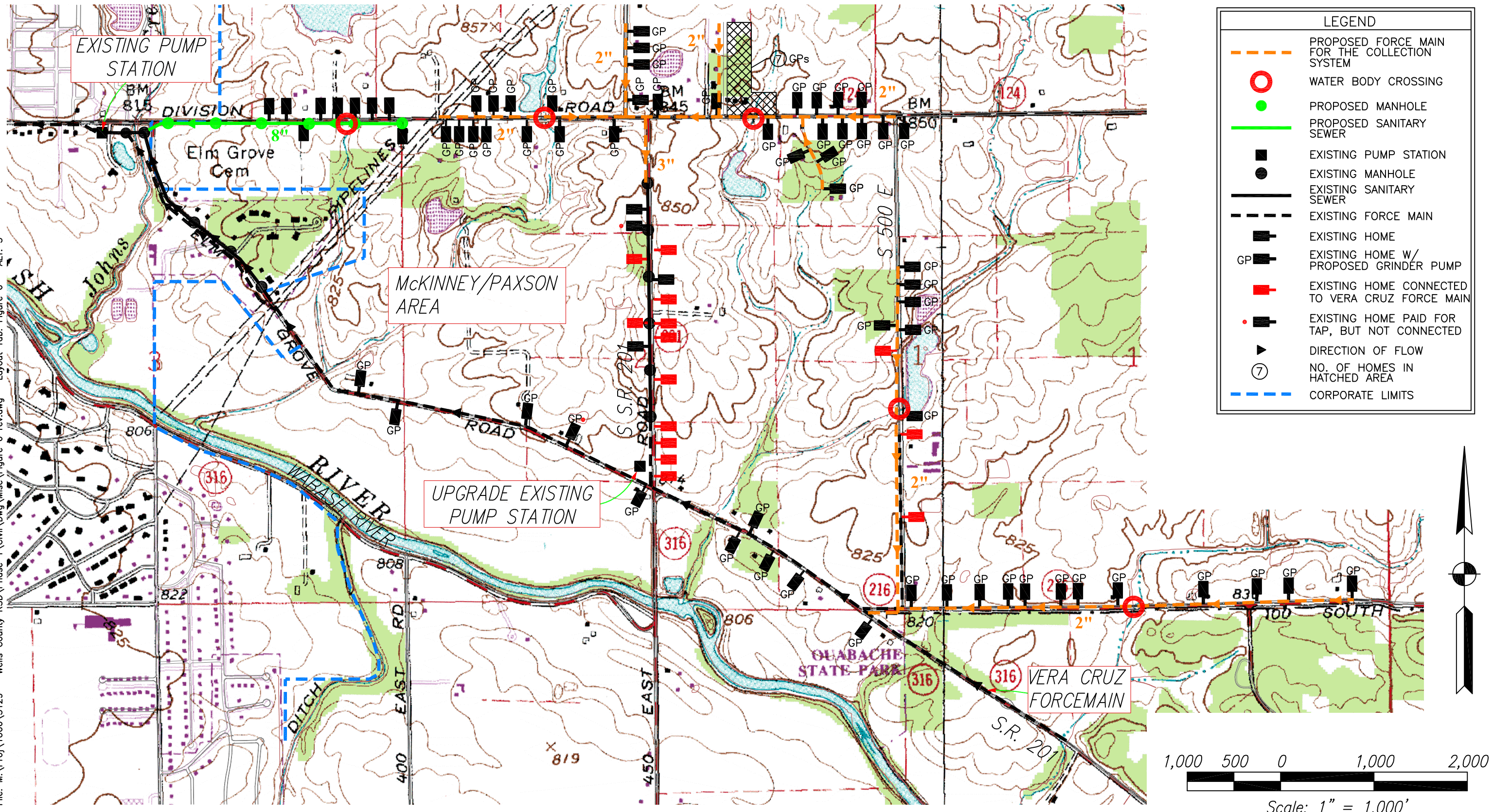
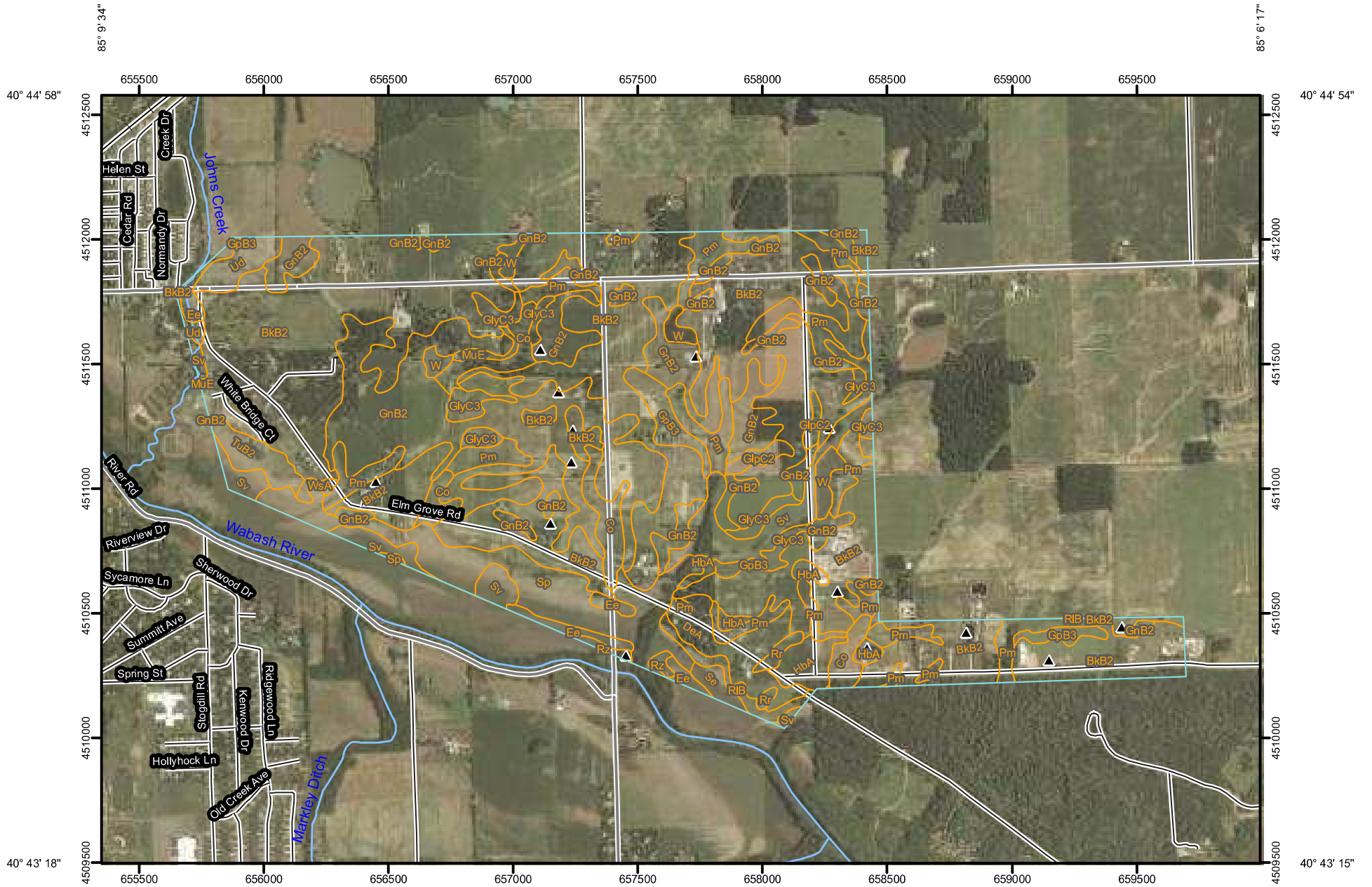


FIGURE 6 – COLLECTION SYSTEM MAP 2012  
 MCKINNEY/PAXSON AREA  
 WELLS COUNTY REGIONAL SEWER DISTRICT  
 ALT. 5 – GRAVITY & FORCE MAIN ALONG SR124 W/ DISCHARGE TO BLUFFTON COLLECTION SYSTEM



Soil Map—Wells County, Indiana  
(Wells County)



85° 9' 37"



Map Scale: 1:22,000 if printed on A size (8.5" x 11") sheet.




**FIGURE 7**  
PROJECT AREA SOIL MAP  
WELLS COUNTY REGIONAL  
SEWER DISTRICT

85° 6' 20"

Soil Map—Wells County, Indiana  
(Wells County)

**MAP LEGEND**






















**Area of Interest (AOI)**




 Area of Interest (AOI)

**Soils**




 Soil Map Units

**Special Point Features**

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

-  Very Stony Spot
-  Wet Spot
-  Other


**Special Line Features**

-  Gully
-  Short Steep Slope
-  Other






**Political Features**

-  Cities

**Water Features**

-  Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**MAP INFORMATION**

Map Scale: 1:22,000 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:15,840.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>  
Coordinate System: UTM Zone 16N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

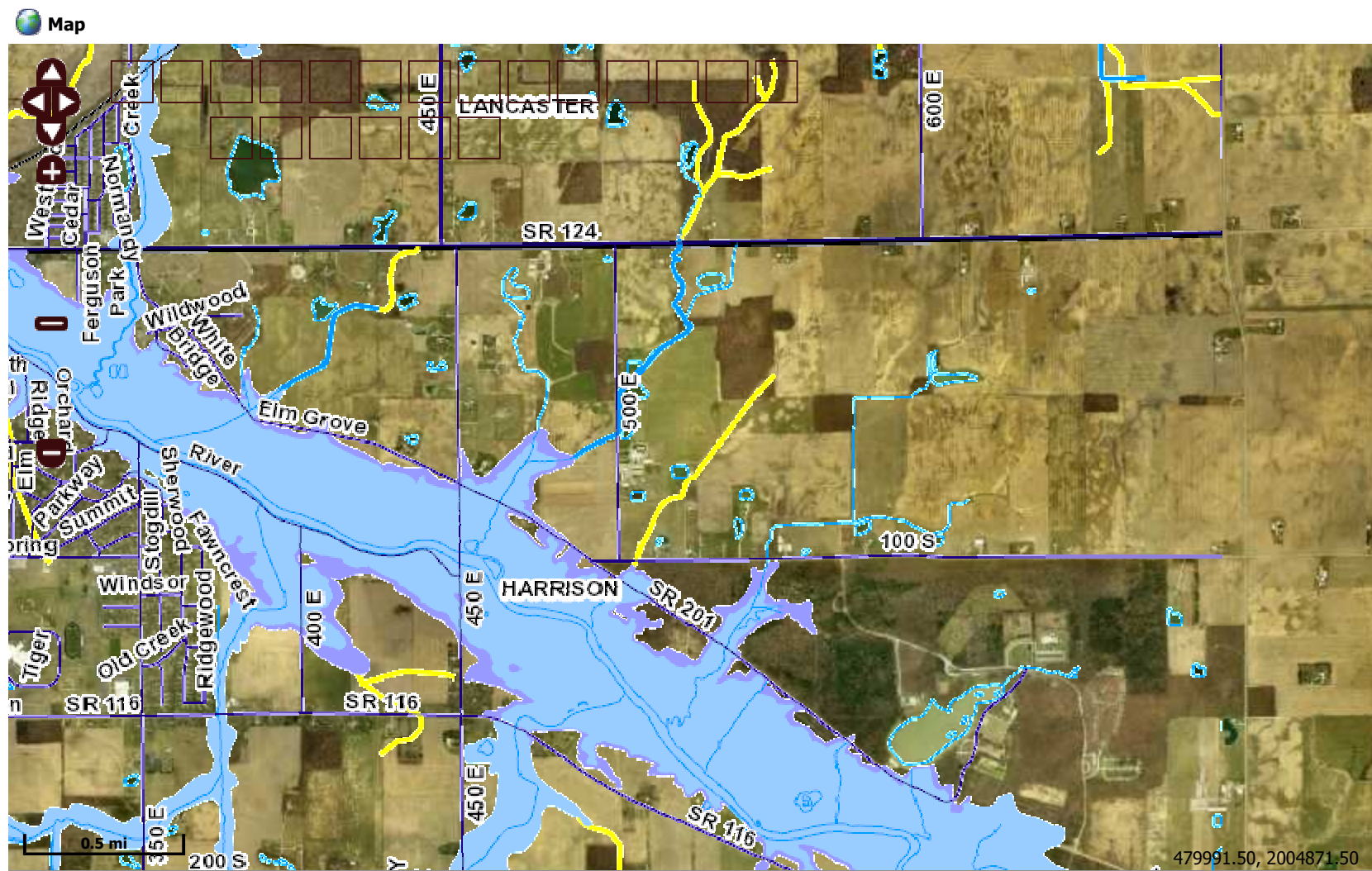
Soil Survey Area: Wells County, Indiana  
Survey Area Data: Version 14, Feb 14, 2012

Date(s) aerial images were photographed: 7/14/2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Wells County, Indiana (IN179)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BkB2	Blount-Del Rey silt loams, 1 to 4 percent slopes, eroded	508.2	46.4%
Co	Coesse silt loam	31.4	2.9%
DeA	Del Rey-Blount silt loams, 0 to 1 percent slopes	22.1	2.0%
Ee	Eel silt loam, frequently flooded	13.0	1.2%
GlpC2	Glynwood clay loam, 6 to 12 percent slopes, eroded	6.3	0.6%
GlyC3	Glynwood-Mississinewa clay loams, 6 to 12 percent slopes, severely eroded	19.8	1.8%
GnB2	Glynwood silt loam, 2 to 5 percent slopes, eroded	212.6	19.4%
GpB3	Glynwood clay loam, 2 to 6 percent slopes, severely eroded	18.1	1.7%
HbA	Haskins loam, 0 to 2 percent slopes	17.8	1.6%
MuE	Morley loam, 15 to 30 percent slopes	2.6	0.2%
Pm	Pewamo silty clay loam	84.2	7.7%
RIB	Rawson fine sandy loam, 2 to 6 percent slopes	7.3	0.7%
Rr	Rensselaer loam	3.6	0.3%
Rz	Ross loam, frequently flooded	3.2	0.3%
Se	Saranac silty clay loam, frequently flooded	4.4	0.4%
Sp	Shoals loam, frequently flooded	62.1	5.7%
Sv	Sloan silty clay loam, frequently flooded	42.2	3.8%
TuB2	Tuscola loam, loamy substratum, 1 to 6 percent slopes, eroded	11.2	1.0%
Ud	Udorthents, loamy	11.7	1.1%
W	Water	12.0	1.1%
WsA	Whitaker silt loam, 0 to 2 percent slopes	2.1	0.2%
<b>Totals for Area of Interest</b>		<b>1,096.1</b>	<b>100.0%</b>



Last Data Upload: 2/21/2012 1:09:35 AM

**FIGURE 8**  
PROJECT AREA FLOOD PLAIN  
MAP  
WELLS COUNTY REGIONAL  
SEWER DISTRICT





# U.S. Fish and Wildlife Service National Wetlands Inventory

McKinney/Paxson  
Area

Feb 6, 2012



## Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

## Status

- Digital
- Scan
- Non-Digital
- No Data

User Remarks:

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

**FIGURE 9**  
PROJECT AREA WETLANDS  
MAP  
WELLS COUNTY REGIONAL  
SEWER DISTRICT



# **TABLES**

**Table 6-1**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 1 - New Pump Station (Vera Cruz + M/P Area) to Bluffton WWTP**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Asphalt Roadway Reconstruction	5,200	SY	\$30	\$156,000
2	Special Backfill (53/73)	8,400	CY	\$25	\$210,000
3	8" Gravity Sewer	10,300	LF	\$40	\$412,000
4	4' Diameter Manholes	21	EA	\$3,000	\$63,000
5	Pump Station (for 37 homes)	1	EA	\$40,000	\$40,000
6	Grinder Pump Stations	31	EA	\$4,000	\$124,000
7	3" Force Main to MH on S.R. 201	2,000	LF	\$25	\$50,000
8	2" Force Main on 500 E & S. off SR 124	8,200	LF	\$20	\$164,000
9	1 1/2" service connections 31 x 150'	4,650	LF	\$14	\$65,100
10	Curb Box/Check Valves	31	EA	\$350	\$10,850
11	Misc. 2" & 3" Valves	4	EA	\$200	\$800
12	Air Release Valves	2	EA	\$2,500	\$5,000
13	New Pump Station at SR 124	1	EA	\$120,000	\$120,000
14	Upgrade Existing PS on SR 201	1	LS	\$20,000	\$20,000
15	6" Force Main to Bluffton WWTP	5,600	LS	\$35	\$196,000
16	Tie-in at MH south of WWTP	1	EA	\$500	\$500
17	Restoration and Seeding	1	LS	\$30,000	\$30,000
18	General Construction Costs* (11%)	1	LS	\$181,000	\$181,000
Construction Contingency (20%)					\$370,000
Construction Subtotal					<b>\$2,219,000</b>
Non-Construction (20%)					\$444,000
<b>Total (rounded up)</b>					<b>\$2,663,000</b>

\*Includes mobilization/demobilization (5%), erosion control, maintenance of traffic, record documents (3%), and construction site layout and staking (3%).

**Table 6-2**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 2 - Upgrade Pump Station All Flow to Bluffton WWTP**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Asphalt Roadway Reconstruction	5,200	SY	\$30	\$156,000
2	Special Backfill (53/73)	8,400	CY	\$25	\$210,000
3	8" Gravity Sewer	10,300	LF	\$40	\$412,000
4	4' Diameter Manholes	21	EA	\$3,000	\$63,000
5	Pump Station (for 37 homes)	1	EA	\$40,000	\$40,000
6	Grinder Pump Stations	31	EA	\$4,000	\$124,000
7	3" Force Main to MH on S.R. 201	2,000	LF	\$25	\$50,000
8	2" Force Main on 500 E & S. off SR 124	8,200	LF	\$20	\$164,000
9	1 1/2" service connections 31 x 150'	4,650	LF	\$14	\$65,100
10	Curb Box/Check Valves	31	EA	\$350	\$10,850
11	Misc. 2" & 3" Valves	4	EA	\$200	\$800
12	Air Release Valves	2	EA	\$2,500	\$5,000
13	Upgrade Exist. Pump Station SR 124	1	EA	\$80,000	\$80,000
14	Upgrade Exist. PS on SR 201	1	EA	\$20,000	\$20,000
15	10" Force Main to Bluffton WWTP	5,250	EA	\$45	\$236,250
16	Tie-in at MH at Bluffton WWTP	1	EA	\$500	\$500
17	Restoration and Seeding	1	LS	\$30,000	\$30,000
18	General Construction Costs* (11%)	1	LS	\$181,000	\$181,000
Construction Contingency (20%)					\$370,000
Construction Subtotal					<b>\$2,219,000</b>
Non-Construction (20%)					\$444,000
<b>Total (rounded up)</b>					<b>\$2,663,000</b>

\*Includes mobilization/demobilization (5%), erosion control, maintenance of traffic, record documents (3%), and construction site layout and staking (3%).

**Table 6-3**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 3 - WWTP Discharge to Wabash River**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Asphalt Roadway Reconstruction	4,500	SY	\$30	\$135,000
2	Special Backfill (53/73)	6,500	CY	\$25	\$162,500
3	8" Gravity Sewer	7,000	LF	\$40	\$280,000
4	4' Diameter Manholes	15	EA	\$3,000	\$45,000
5	Pump Station (for 46 homes)	1	EA	\$40,000	\$40,000
6	Grinder Pump Stations	43	EA	\$4,000	\$172,000
7	3" Force Main along Elm Grove	3,600	LF	\$25	\$90,000
8	2" Force Main on 500 E & 100 S	10,000	LF	\$20	\$200,000
9	4" Force Main New PS to WWTP	10,000	EA	\$30	\$300,000
10	1 1/2" Service Connections 43 x 150'	6,450	LF	\$14	\$90,300
11	Curb Box/Check Valves	43	EA	\$350	\$15,050
12	Misc. 2", 3" & 4" Valves	6	EA	\$200	\$1,200
13	Air Release Valves	4	EA	\$2,500	\$10,000
14	WWTP & Tertiary Filters	1	LS	\$510,000	\$510,000
15	Restoration and Seeding	1	LS	\$30,000	\$30,000
16	General Construction Costs* (11%)	1	LS	\$226,000	\$226,000
Construction Contingency (20%)					\$462,000
Construction Subtotal					<b>\$2,770,000</b>
Non-Construction (20%)					\$554,000
<b>Total (rounded up)</b>					<b>\$3,324,000</b>

\*Includes mobilization/demobilization (5%), erosion control, maintenance of traffic, record documents (3%), and construction site layout and staking (3%).

Land acquisition cost for WWTP facilities is not included.

**Table 6-3A - Detail**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 3 - WWTP Discharge to Wabash River**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Package Plant	1	EA	\$250,000	\$250,000
2	Common Excavation for Tankage	450	CY	\$15	\$6,750
3	Foundation Slab	32	CY	\$500	\$16,000
4	Adder for concrete tankage	1	LS	\$25,000	\$25,000
5	Trogan UV	1	EA	\$16,000	\$16,000
6	Site Work (drive, parking, seeding, fence)	1	LS	\$50,000	\$50,000
7	Yard Piping	1	LS	\$20,000	\$20,000
8	Electrical Site	1	LS	\$10,000	\$10,000
9	Electrical Equipment Controls & Panels	1	LS	\$5,000	\$5,000
10	Standby Generator	1	EA	\$40,000	\$40,000
11	Plant Effluent (8" gravity sewer)	1,600	LF	\$40	\$64,000
12	Manholes on Effluent Sewer	2	EA	\$3,000	\$6,000
13	Outfall Structure at river	1	EA	\$1,000	\$1,000
	<b>Sub Total (Item 14 Table 6-3)</b>				<b>\$510,000</b>

**Table 6-4**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 4 - Lagoon System Discharge to Wabash River**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Asphalt Roadway Reconstruction	4,500	SY	\$30	\$135,000
2	Special Backfill (53/73)	6,500	CY	\$25	\$162,500
3	8" Gravity Sewer	7,000	LF	\$40	\$280,000
4	4' Diameter Manholes	15	EA	\$3,000	\$45,000
5	Pump Station (for 46 homes)	1	EA	\$40,000	\$40,000
6	Grinder Pump Stations	43	EA	\$4,000	\$172,000
7	3" Force Main along Elm Grove	3,600	LF	\$25	\$90,000
8	2" Force Main on 500 E & 100 S	10,000	LF	\$20	\$200,000
9	4" Force Main New PS to Lagoons	10,000	EA	\$30	\$300,000
10	1 1/2" Service Connections 43 x 150'	6,450	LF	\$14	\$90,300
11	Curb Box/Check Valves	43	EA	\$350	\$15,050
12	Misc. 2", 3" & 4" Valves	6	EA	\$200	\$1,200
13	Air Release Valves	4	EA	\$2,500	\$10,000
14	Lagoon System	1	LS	\$512,000	\$512,000
15	Restoration and Seeding	1	LS	\$30,000	\$30,000
16	General Construction Costs* (11%)	1	LS	\$226,000	\$226,000
Construction Contingency (20%)					\$462,000
Construction Subtotal					<b>\$2,772,000</b>
Non-Construction (20%)					\$555,000
<b>Total (rounded up)</b>					<b>\$3,327,000</b>

\*Includes mobilization/demobilization (5%), erosion control, maintenance of traffic, record documents (3%), and construction site layout and staking (3%).

Land acquisition cost for lagoon system facilities is not included.

**Table 6-4A - Detail**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 4 -Lagoon System Discharge to Wabash River**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Lagoons & Attached Growth Reactor	1	EA	\$185,000	\$185,000
2	Common Excavation (3,490 +463 cy)	4,053	CY	\$15	\$60,795
3	Place Lagoon Berms and Clay liner	530	CY	\$40	\$21,200
4	Blower Building (Enclosure)	1	EA	\$3,000	\$3,000
5	Trogan UV	1	EA	\$16,000	\$16,000
6	Site Work (drive, parking, seeding, fence)	1	LS	\$75,000	\$75,000
7	Yard Piping	1	LS	\$25,000	\$25,000
8	Electrical Site	1	LS	\$10,000	\$10,000
9	Electrical Equipment Controls & Panels	1	LS	\$5,000	\$5,000
10	Standby Generator	1	EA	\$40,000	\$40,000
11	Plant Effluent (8" gravity sewer)	1,600	LF	\$40	\$64,000
12	Manholes on Effluent Sewer	2	EA	\$3,000	\$6,000
13	Outfall Structure at river	1	EA	\$1,000	\$1,000
	<b>Sub Total (Item 14 Table 6-4)</b>				<b>\$512,000</b>

**Table 6-5**  
**McKinney/Paxson Area PER**  
**Preliminary Estimate of Probable Construction Cost**  
**Alt. 5: Gravity & FM Along SR 124, Connect to Vera Cruz FM**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Unit</b>	<b>Unit Price</b>	<b>Total</b>
1	Asphalt Roadway Reconstruction	700	SY	\$30	\$21,000
2	Special Backfill (53/73)	2,300	CY	\$25	\$57,500
3	8" Gravity Sewer (on SR 124)	3,000	LF	\$40	\$120,000
4	4' Diameter Manholes	6	EA	\$3,000	\$18,000
5	Grinder Pump Stations	65	EA	\$4,000	\$260,000
6	3" Force Main to MH on S.R. 201	700	LF	\$20	\$14,000
7	2" Force Main on 500 E & S. off SR 124	16,400	LF	\$16	\$262,400
8	1 1/2" service connections 65 x 150'	9,750	LF	\$14	\$136,500
9	Curb Box/Check Valve	65	EA	\$350	\$22,750
10	Misc. 2" valves	6	EA	\$200	\$1,200
11	Air Release Valves	3	EA	\$2,500	\$7,500
12	Flushing/Cleanout Structures	7	EA	\$1,000	\$7,000
13	Upgrade PS @ SR 201 and Elm Grove	1	LS	\$20,000	\$20,000
14	Restoration & Seeding	1	LS	\$30,000	\$30,000
15	General Construction Costs** (11%)	1	LS	\$108,000	\$108,000
Construction Contingency (20%)					\$218,000
Construction Subtotal					<b>\$1,304,000</b>
Non-Construction (20%)					\$261,000
<b>Total (rounded up)</b>					<b>\$1,565,000</b>

\*Cost of land acquisition not included.

\*\*Includes mobilization/demobilization (5%), erosion control, maintenance of traffic, record documents (3%), and construction site layout and staking (3%).



**Table 6-1B**  
**McKinney/Paxson Area PER**  
**Operation, Maintenance & Replacement and Salvage Value**  
**Alt. 1 - New Pump Station (Vera Cruz + M/P Area) to Bluffton WWTP**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>Capital Cost</b>	<b>Annual O&amp;M</b>	<b>Salvage</b>	<b>Replacement</b>
1	Asphalt Roadway Reconstruction	\$156,000			
2	Special Backfill (53/73)	\$210,000			
3	8" Gravity Sewer	\$412,000	\$2,060		
4	4' Diameter Manholes	\$63,000	\$315		
5	Pump Station (for 37 homes)	\$40,000	\$1,600	\$10,000	\$20,000
6	Grinder Pump Stations	\$124,000	\$4,960	\$62,000	\$124,000
7	3" Force Main to MH on S.R. 201	\$50,000	\$250		
8	2" Force Main on 500 E & S. off SR	\$164,000	\$820		
9	1 1/2" Service Connections	\$65,100	\$326		
10	Curb Box/Check Valves	\$10,850	\$54		
11	Misc. 2" & 3" Valves	\$800	\$4		
12	Air Release Valves	\$5,000	\$25		
13	New Pump Station at SR 124	\$120,000	\$4,800	\$30,000	\$60,000
14	Upgrade Exist. PS on SR 201	\$20,000			
15	6" Force Main to Bluffton WWTP	\$196,000	\$980		
16	Tie-in at MH at WWTP	\$500			
	Sub Totals		\$16,194	<b>\$102,000</b>	\$204,000
	Annual Replacement		\$7,589		
	Annual OM&R				<b>\$23,800</b>

Annual O&M for piping is 0.5% of capital cost. Annual O&M for equipment is 4% of capital cost.

**Table 6-2B**  
**McKinney/Paxson Area PER**  
**Operation, Maintenance & Replacement and Salvage Value**  
**Alt. 2 - Upgrade Pump Station All Flow to Bluffton WWTP**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>Capital Cost</b>	<b>Annual O&amp;M</b>	<b>Salvage</b>	<b>Replacement</b>
1	Asphalt Roadway Reconstruction	\$156,000			
2	Special Backfill (53/73)	\$210,000			
3	8" Gravity Sewer	\$412,000	\$2,060		
4	4' Diameter Manholes	\$63,000	\$315		
5	Pump Station (for 37 homes)	\$40,000	\$1,600	\$10,000	\$20,000
6	Grinder Pump Stations	\$124,000	\$4,960	\$62,000	\$124,000
7	3" Force Main to MH on S.R. 201	\$50,000	\$250		
8	2" Force Main on 500 E & S. off SR	\$164,000	\$820		
9	1 1/2" Service Connections	\$65,100	\$326		
10	Curb Box/Check Valves	\$10,850	\$54		
11	Misc. 2" & 3" Valves	\$800	\$4		
12	Air Release Valves	\$5,000	\$25		
13	Upgrade Exist. Pump Sta.- SR 124	\$80,000	\$3,200	\$40,000	\$80,000
14	Upgrade Exist. PS on SR 201	\$20,000			
15	10" Force Main to Bluffton WWTP	\$236,250	\$1,181		
16	Tie-in at MH at WWTP	\$500			
	Sub Totals		\$14,795	<b>\$112,000</b>	\$224,000
	Annual Replacement		\$8,333		
	Annual OM&R				<b>\$23,200</b>

Annual O&M for piping is 0.5% of capital cost. Annual O&M for equipment is 4% of capital cost.

**Table 6-3B**  
**McKinney/Paxson Area PER**  
**Operation, Maintenance & Replacement and Salvage Value**  
**Alt. 3 - WWTP Discharge to Wabash River**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>Capital Cost</b>	<b>Annual O&amp;M</b>	<b>Salvage</b>	<b>Replacement</b>
1	Asphalt Roadway Reconstruction	\$135,000			
2	Special Backfill (53/73)	\$162,500			
3	8" Gravity Sewer	\$280,000	\$1,400		
4	4' Diameter Manholes	\$45,000	\$225		
5	Pump Station (for 46 homes)	\$40,000	\$1,600	\$10,000	\$20,000
6	Grinder Pump Stations	\$160,000	\$6,400	\$80,000	\$160,000
7	3" Force Main along Elm Grove	\$90,000	\$450		
8	2" Force Main on 500 E & 100 S	\$200,000	\$1,000		
9	4" Force Main N PS to WWTP	\$300,000	\$1,500		
10	1 1/2" Service Connections	\$90,300	\$452		
11	Curb Box/Check Valves	\$15,050	\$75		
12	Misc. 2", 3" & 4" Valves	\$1,200	\$6		
13	Air Release Valves	\$10,000	\$50		
14	WWTP & Tertiary Filters	\$510,000	\$35,700	\$128,000	\$261,000
	Sub Totals		\$48,858	<b>\$218,000</b>	\$441,000
	Annual Replacement		\$16,405		
	Annual OM&R				<b>\$65,300</b>

Annual O&M for piping is 0.5% of capital cost. Annual O&M for equipment is 4% of capital cost.  
Annual O&M for WWTP is 7% of capital cost.

**Table 6-4B**  
**McKinney/Paxson Area PER**  
**Operation, Maintenance & Replacement and Salvage Value**  
**Alt. 4 - Lagoon System Discharge to Wabash River**  
**Feb-12**

<b>Item</b>	<b>Description</b>	<b>Capital Cost</b>	<b>Annual O&amp;M</b>	<b>Salvage</b>	<b>Replacement</b>
1	Asphalt Roadway Reconstruction	\$135,000			
2	Special Backfill (53/73)	\$162,500			
3	8" Gravity Sewer	\$280,000	\$1,400		
4	4' Diameter Manholes	\$45,000	\$225		
5	Pump Station (for 46 homes)	\$40,000	\$1,600	\$10,000	\$20,000
6	Grinder Pump Stations	\$172,000	\$6,880	\$86,000	\$172,000
7	3" Force Main along Elm Grove	\$90,000	\$450		
8	2" Force Main on 500 E & 100 S	\$200,000	\$1,000		
9	4" Force Main N PS to Lagoons	\$300,000	\$1,500		
10	1 1/2" Service Connections	\$90,300	\$452		
11	Curb Box/Check Valves	\$15,050	\$75		
12	Misc. 2", 3" & 4" Valves	\$1,200	\$6		
13	Air Release Valves	\$10,000	\$50		
14	Lagoon System	\$512,000	\$20,480	\$123,000	\$206,000
	Sub Totals		\$34,118	<b>\$219,000</b>	\$398,000
	Annual Replacement		\$14,806		
	Annual OM&R				<b>\$49,000</b>

Annual O&M for piping is 0.5% of capital cost. Annual O&M for equipment is 4% of capital cost. Annual O&M for Lagoon system is 4% of capital cost.

**Table 6-5B**

**McKinney/Paxson Area PER  
 Operation, Maintenance & Replacement and Salvage Value  
 Alt.5 - Gravity & FM Along SR 124, Connect to Vera Cruz FM  
 Feb-12**

<b>Item</b>	<b>Description</b>	<b>Capital Cost</b>	<b>Annual O&amp;M</b>	<b>Salvage</b>	<b>Replacement</b>
1	Asphalt Roadway Reconstruction	\$21,000			
2	Special Backfill (53/73)	\$57,500			
3	8" Gravity Sewer	\$120,000	\$600		
4	4' Diameter Manholes	\$18,000	\$90		
5	Grinder Pump Stations (65)	\$260,000	\$10,400	\$130,000	\$260,000
6	3" Force Main to MH on S.R. 201	\$14,000	\$70		
7	2" Force Main on 500 E & S. off SR 12	\$262,400	\$1,312		
8	1 1/2" service connections 65 x 150'	\$136,500	\$683		
9	Curb Box/Check Valve	\$22,750	\$114		
10	Misc. 2" Valves	\$1,200	\$6		
11	Air Release Valves	\$7,500	\$38		
12	Flushing/Cleanout Structures	\$7,000	\$35		
13	Upgrade Exist. PS on SR 201	\$20,000	\$800	\$10,000	\$20,000
	<b>Sub Totals</b>		<b>\$14,147</b>	<b>\$140,000</b>	<b>\$280,000</b>
	Annual Replacement		<b>\$3,724</b>		
	Annual OM&R				<b>\$17,900</b>

Annual O&M for piping is 0.5% of capital cost. Annual O&M for equipment is 4% of capital cost.

**Table 6-6**  
**Wells County Regional Sewer District, Indiana**  
**Present Worth Analysis -- Collection System and Treatment Alternatives**  
 (Using USDA RD, 40-Year Term at 3.0%)  
**Feb-12**

Alternative	Description	Construction	Non-Construction	USDA 45% Grant	Salvage Value	Annual OM&R	Total Present Worth
1	New PS/FM to Bluffton WWTP	\$2,219,000	\$444,000	\$1,198,350	\$102,000	\$23,800	\$1,983,509
2	Upgrade PS/FM to Bluffton WWTP	\$2,219,000	\$444,000	\$1,198,350	\$112,000	\$23,200	\$1,966,574
3	WWTP w/Discharge to Wabash R.	\$2,770,000	\$554,000	\$1,495,800	\$218,000	\$65,300	\$3,270,758
4	Lagoons w/Discharge to Wabash R.	\$2,772,000	\$555,000	\$1,497,150	\$219,000	\$49,000	\$2,895,330
<b>5</b>	<b>Gravity &amp; FM to Bluffton System</b>	\$1,304,000	\$261,000	\$704,250	\$140,000	\$17,900	\$1,231,581

Interest Rate: 3.0%, 40 years (USDA RD current rate)

**Selected Alternatives in Bold**

**TABLE 7-1  
SELECTED PLAN COST SUMMARY**

Item	Total Cost	
<b>Non-Construction Costs (Items 1-6) (20% of Construction Cost)</b>		
1	Administrative and Legal	\$45,000
2	Land, Structures, Rights-of-way, Appraisals, etc.	\$0
3	Relocation Expenses and Payments	\$0
<b>Engineering Fees</b>		
4	Architectural and Engineering Fees (Design)	\$118,000
5	Other Arch. and Engineering Fees (Constr. Admin.)	\$20,000
6	Project Inspection Fees	\$78,000
<b>Construction</b>	<b>(Items 7-11)</b>	<b>(\$1,086,000)</b>
7	Site Work	\$30,000
8	Demolition and Removal	\$0
9	Construction	\$948,000
10	Equipment	\$0
11	Miscellaneous	\$108,000
12	<b>Subtotal (sum of items 1-11)</b>	<b>\$1,347,000</b>
13	<b>Construction Contingencies (20% of items 7-11)</b>	<b>\$218,000</b>
14	<b>Subtotal</b>	<b>\$1,565,000</b>
15	<b>Project (Program) Income</b>	<b>0</b>
<b>TOTAL PROJECT COSTS ( subtract item 15 from item 14)</b>		<b>\$1,565,000</b>

TABLE 7-2  
PROPOSED PROJECT SCHEDULE

Activity	Date
DP Submittal to USDA	March 2012
Anticipated DP Approval	June 2012
Begin Design of Collection System	July 2012
Plans & Specification Submittal	December 2012
Plans & Specifications Approval	January 2013
Land and Easement Acquisition	February 2013
Advertise for Bids	March 2013
Loan Closing (after bids are received)	April 2013
Contract Award	May 2013
Initiation of Construction	June 2013
Substantial Completion of Construction	March 2014
Initiation of Operation	May 2014



# **APPENDICES**

# **APPENDIX 1**



# INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live*

Frank O'Bannon  
Governor

Lori F. Kaplan  
Commissioner

July 11, 2001

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
[www.state.in.us/idem](http://www.state.in.us/idem)

VIA CERTIFIED MAIL: 7000 0520 0023 5045 0540

Wells County Commissioners  
Mr. Paul I. Bonham  
Mr. Kevin S. Woodward  
Mr. Randal Plummer  
102 West Market Street  
Bluffton, Indiana 46714

Dear County Commissioners:

Re: Noncompliance with Indiana Code  
and Indiana Administrative Code

### WARNING OF NONCOMPLIANCE

You are hereby notified that this office has been advised by the Wells County Health Department of their observations and documentation of discharges of sewage into McKinney and Paxson Ditches, county drainage ditches, which then flow to the Wabash River. A number of water samples taken at different times during 1999 and 2000 were tested for E.coli bacteria, as an indicator of surface water quality. Results showed significantly elevated counts of the bacteria, an indication of improperly treated sewage from local septic systems. Recent inspection of McKinney and Paxson Ditches indicates this problem is ongoing.

This discharge of sewage into waters of the State is in violation of the Indiana Code (IC) and the Indiana Administrative Code (IAC). Specifically, the following provisions have been violated:

IC 13-30-2-1 which states, in part, "A person may not discharge, emit, cause, allow, or threaten to discharge, emit, cause, or allow any contaminant or waste, including any noxious odor, either alone or in combination with contaminants from other sources, into:

- (1) the environment; or
- (2) any publicly owned treatment works;

in any form that causes or would cause pollution that violates or would violate rules, standards, or discharge or emission requirements adopted by the appropriate board under the environmental management laws."

IC 13-18-4-5 which states, in part, "A person may not:

- (1) throw, run, drain, or otherwise dispose into any of the streams or waters of Indiana; or
- (2) cause, permit, or suffer to be thrown, run, drained, allowed to seep, or otherwise disposed into any waters;

any organic or inorganic matter that causes or contributes to a polluted condition of any waters..."

327 IAC 2-1-6(a)(1) which states, in part, "All waters at all times and at all places, including the mixing zone, shall meet the minimum conditions of being free from substances, materials, floating debris, oil, or scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges:

- (A) that will settle to form putrescent or otherwise objectionable deposits;
- (B) that are in amounts sufficient to be unsightly or deleterious;
- (C) that produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;
- (D) which are in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill aquatic life, other animals, plants, or humans"

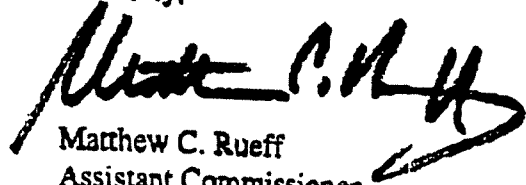
This situation is a public health and environmental hazard. We have been informed that soil characteristics in this general area of Wells County have been found to be inappropriate to support effective on-site sewage treatment systems, therefore construction of a sewage collection and treatment system may be the only solution.

It is the belief of this office that the above noted violations are of a serious nature and deserve your immediate attention to return to compliance with the Indiana Code and the Indiana Administrative Code. It is therefore requested that you advise the Compliance Evaluation Section, Office of Water Quality, in writing, within thirty (30) days of the date of this correspondence, of the reasons for the violations as herein noted, along with any mitigating circumstances as to why enforcement action should not be pursued by this office.

Specifically, please submit a plan describing the corrective measures which will be taken to assure compliance in the future. *The correspondence must be submitted and signed by you, the Wells County Commissioners*, and directed to the attention of Pam Grams. Failure to adequately respond to this notice will prompt this office to initiate an enforcement action, which would include fines and penalties.

8651. If you have any questions concerning this notice, please contact Pam Grams at 317/232-

Sincerely,



Matthew C. Rueff  
Assistant Commissioner  
Office of Water Quality

c: Indiana State Dept. of Health  
Residential Sewage Disposal,  
Sanitary Engineering  
Wells County Health Department  
Attn: Linda Mauller

# **APPENDIX 2**

## **McKinney Ditch Watershed Sampling Results**

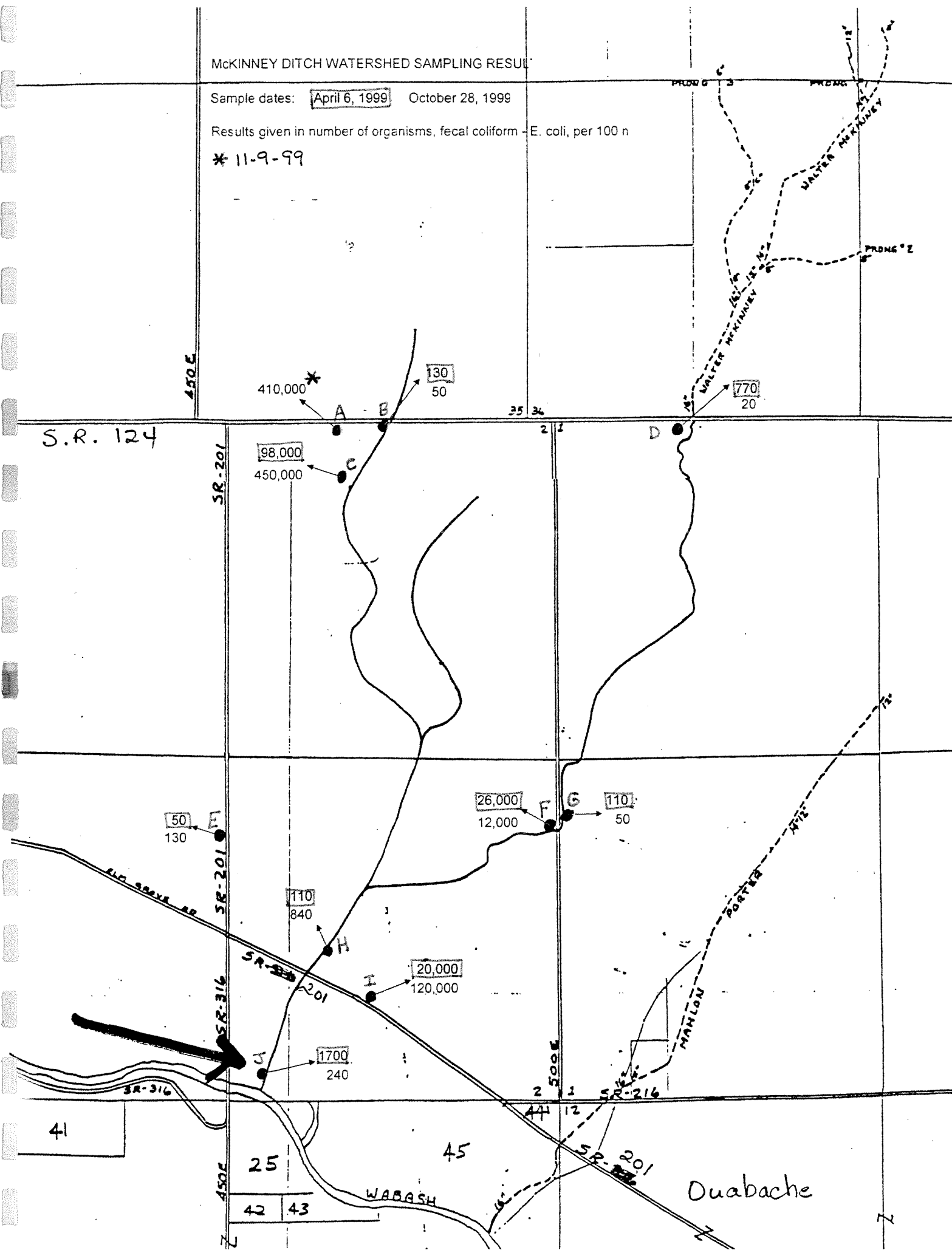
Water samples were taken in ten (10) locations within the McKinney Watershed area. The locations of the samples are as shown on the following map. The sample test results from the Indiana State Department of health are also included. Samples were taken at the same locations on April 6, 1999 and October 28, 1999. The results show the quantity of both Fecal Coliform and E. Coli.

MCKINNEY DITCH WATERSHED SAMPLING RESULT

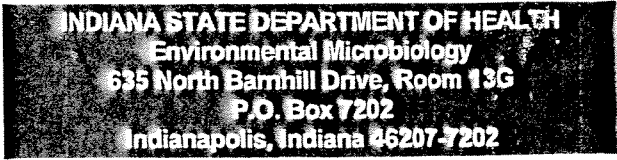
Sample dates: April 6, 1999    October 28, 1999

Results given in number of organisms, fecal coliform - E. coli, per 100 n

\* 11-9-99







Shipping Number \_\_\_\_\_

Sample Number 1391

Date Rep. NOV 23 1999

Date Received NOV 23 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

Name: Wells County Health Dept  
Street: 223 W. Washington St  
City: Bluffton IN (Zip) 46783

SAMPLE SUBMITTED BY: Linda J. Mauler  
HEALTH OFFICIAL Wells (COUNTY)

IDENTIFICATION NUMBER 90400007 BOTTLE NUMBER XX

SAMPLE SOURCE (CHECK ONE):  
 Drinking Water  Swimming Pool  Spa/Hot Tub  
 Bathing Beach  Surface Water-Ditch, etc.  Ice  
 Meat/Poultry Plant  Bottled Water  Dairy  
 OTHER \_\_\_\_\_

NAME/ORGANIZATION McKinney Ditch Watershed  
ADDRESS 1/4 mile east of 201 on south 124  
LOCATION inspection port on south side  
PHONE N/A  
DATE COLLECTED 11-9-99 TIME COLLECTED 8:15 a.m.

ADDITIONAL REPORTS ARE TO BE MAILED TO:  
(Name) \_\_\_\_\_  
(Street) \_\_\_\_\_  
(City or Town) \_\_\_\_\_ IN (Zip) \_\_\_\_\_

ANALYSIS DATA--TO BE COMPLETED BY LAB  
TEST: TOTAL COLIFORM

METHOD:\*  
 MF  MPN  LST P/A  MM P/A  MM QT  
RESULT:  
 PRESENT          
 ABSENT  
ANALYST: \_\_\_\_\_

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*  
 MF  MPN  EC P/A  MM P/A  MM QT  
RESULT:  
 PRESENT   4 1 0 0 0 0 0  
 ABSENT  
ANALYST: \_\_\_\_\_

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected   
HETEROTROPHIC  
PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

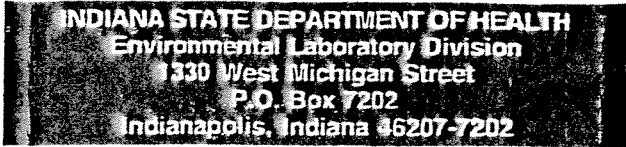
Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.  
 UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.  
 PLEASE SUBMIT ANOTHER SAMPLE.  
TEST NOT VALID BECAUSE:  
 Too long in transit (more than 48 hours).  
 Invalid/no collection date.  
 Incomplete information.  
 Other \_\_\_\_\_

TIME OF ANALYSIS 1:45

HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT FORM

B



APR 12 1999 11

Date Rep. \_\_\_\_\_

Sample Number 07136

Date Received APR 06 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK. Indiana State Department of Health is to mail report to: (Name) WELLS COUNTY HEALTH DEPT. (Street) 223 W. Washington, Suite 202 (City or Town) BLUFFTON, IN 46714-1955 (Zip) (219)-824-6489

ANALYSIS DATA-TO BE COMPLETED BY LAB TEST: TOTAL COLIFORM METHOD: MF MPN LST P/A MMO-MUG P/A RESULT: PRESENT ABSENT ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauler HEALTH OFFICIAL Wells (COUNTY)

IDENTIFICATION NUMBER 90H0001 BOTTLE NUMBER 05

TEST:  FECAL COLIFORM  E. COLI METHOD: MF MPN E. C. P/A MMO-MUG P/A RESULT: PRESENT ABSENT 130 ANALYST:

SAMPLE SOURCE (CHECK ONE):

- Drinking Water  Swimming Pool  Spa/Hot Tub  Bathing Beach  Surface Water-Ditch, etc.  Ice  Meat/Poultry Plant  Bottled Water  Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml. If MF is checked the result is organisms per 100 ml. If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

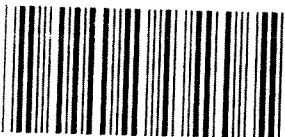
HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

NAME/ORGANIZATION Walter McKinney Water Shed ADDRESS 1/4 mile west of 5000 on S.R. 124 LOCATION metal culvert south side PHONE N/A DATE COLLECTED 4-6-99 TIME COLLECTED 9:35 a.m.

ADDITIONAL REPORTS ARE TO BE MAILED TO: (Name) \_\_\_\_\_ (Street) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

Report of Samples  SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.  UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.  PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:  Too long in transit (more than 48 hours).  Invalid/no collection date.  Incomplete information.  Other \_\_\_\_\_

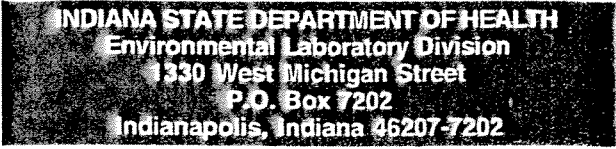
ISDH - LABS



\*46315\*

TIME OF ANALYSIS 1 : 25

B



Sample Number 1381

Date Rep. \_\_\_\_\_

Date Received 007 2 8 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*  
 MF     MPN     LST P/A     MMO-MUG P/A

RESULT:  
 PRESENT     ABSENT   

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Mauler

HEALTH OFFICIAL Wells  
(COUNTY)

TEST:  FECAL COLIFORM     E. COLI

METHOD:\*  
 MF     MPN     E. C. P/A     MMO-MUG P/A

RESULT:  
 PRESENT     ABSENT            50

ANALYST: \_\_\_\_\_

IDENTIFICATION NUMBER    BOTTLE NUMBER

9 0 H 0 0 0 1    0 5

- SAMPLE SOURCE (CHECK ONE):
- Drinking Water     Swimming Pool     Spa/Hot Tub
  - Bathing Beach     Surface Water-Ditch, etc.     Ice
  - Meat/Poultry Plant     Bottled Water     Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

OTHER **TIME OF ANALYSIS** 2:30

HETEROTROPHIC PLATE COUNT    \_\_\_ /1.0 ML    \_\_\_ /0.1 ML

NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS 1/2 mile west of 500E on S.R.124

LOCATION metal culvert on south side

PHONE N/A

DATE COLLECTED 10-28-99 TIME COLLECTED 8:56 a.m.

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

- Too long in transit (more than 48 hours).
- Invalid/no collection date.
- Incomplete information.
- Other \_\_\_\_\_

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ISDH - LABS



HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT FORM

C

**INDIANA STATE DEPARTMENT OF HEALTH**  
 Environmental Laboratory Division  
 1330 West Michigan Street  
 P.O. Box 7202  
 Indianapolis, Indiana 46207-7202

APR 12 1999 11

Sample Number 00133

APR 06 1999

Date Rep. \_\_\_\_\_

Date Received \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
 Indiana State Department of Health is to mail report to:

**WELLS COUNTY HEALTH DEPT.**

(Name) 223 W. Washington, Suite 202  
 (Street) BLUFFTON, IN 46714-1955  
 (City or Town) IN (Zip) (219)-824-6489

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:

MF  MPN  LST P/A  MMO-MUG P/A

RESULT:

PRESENT  ABSENT

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Mauler

HEALTH OFFICIAL Wells  
 (COUNTY)

IDENTIFICATION NUMBER BOTTLE NUMBER

9040001 06

TEST:  FECAL COLIFORM  E. COLI

METHOD:

MF  MPN  E. C. P/A  MMO-MUG P/A

RESULT:

PRESENT  ABSENT   98000

ANALYST: \_\_\_\_\_

SAMPLE SOURCE (CHECK ONE):

- Drinking Water
- Swimming Pool
- Spa/Hot Tub
- Bathing Beach
- Surface Water-Ditch, etc.
- Ice
- Meat/Poultry Plant
- Bottled Water
- Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
 If MF is checked the result is organisms per 100 ml.  
 If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Watershed

ADDRESS 1/4 mile west of 5002 South of SR 124

LOCATION concrete structure n sw 1/4<sup>th</sup> of road

PHONE N/A

DATE COLLECTED 4-6-99 TIME COLLECTED 9:40 a.m.

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_  
 (Street) \_\_\_\_\_  
 (City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

HETEROTROPHIC

PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

- SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.
- UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

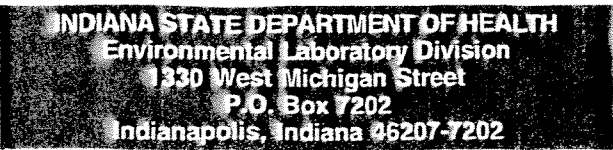
PLEASE SUBMIT ANOTHER SAMPLE.  
 TEST NOT VALID BECAUSE:

- Too long in transit (more than 48 hours).
- Invalid/no collection date.
- Incomplete information.
- Other \_\_\_\_\_

ISDH - LABS



TIME OF ANALYSIS 1:25



Sample Number 1382  
 Date Received OCT 28 1999

Date Rep. \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
 Indiana State Department of Health is to mail report to:

\_\_\_\_\_  
 (Name)

\_\_\_\_\_  
 (Street)

\_\_\_\_\_  
 (City or Town) IN \_\_\_\_\_  
 (Zip)

**ANALYSIS DATA—TO BE COMPLETED BY LAB**

TEST: TOTAL COLIFORM

METHOD:\*  
 MF     MPN     LST P/A     MMO-MUG P/A

RESULT:  
 PRESENT     ABSENT    [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauller  
 HEALTH OFFICIAL Wells  
 (COUNTY)

IDENTIFICATION NUMBER      BOTTLE NUMBER

[9][0][H][0][0][0][1][ ]      [0][6]

TEST:  FECAL COLIFORM     E. COLI

METHOD:\*  
 MF     MPN     E. C. P/A     MMO-MUG P/A

RESULT:  
 PRESENT     ABSENT    [ ] [4][5][0][0][0][0]

ANALYST:

**SAMPLE SOURCE (CHECK ONE):**

- Drinking Water     Swimming Pool     Spa/Hot Tub  
 Bathing Beach     Surface Water-Ditch, etc.     Ice  
 Meat/Poultry Plant     Bottled Water     Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
 If MF is checked the result is organisms per 100 ml.  
 If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

**TIME OF ANALYSIS**      2:30

HETEROTROPHIC PLATE COUNT      \_\_\_\_\_ /1.0 ML      \_\_\_\_\_ /0.1 ML

OTHER \_\_\_\_\_  
 NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS 1/2 mile west of 500E south of S.R. 124  
 LOCATION concrete structure 500' south of road  
 PHONE N/A  
 DATE COLLECTED 10-28-99 TIME COLLECTED 9:00 a.m.

**Report of Samples**

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

Too long in transit (more than 48 hours).  
 Invalid/no collection date.  
 Incomplete information.  
 Other \_\_\_\_\_

ADDITIONAL REPORTS ARE TO BE MAILED TO:

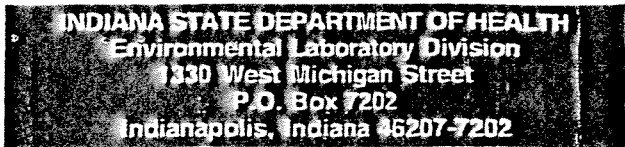
\_\_\_\_\_  
 (Name)

\_\_\_\_\_  
 (Street)

\_\_\_\_\_  
 (City or Town) IN \_\_\_\_\_  
 (Zip)



D



00134

Sample Number

APR 06 1999

Date Received

APR 12 1999 11

Date Recp.

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

WELLS COUNTY HEALTH DEPT.  
(Name) 223 W. Washington, Suite 202  
(Street) BLUFFTON, IN 46714-1055  
(219)-824-6489  
IN  
(City or Town) (Zip)

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:

- MF
- MPN
- LST P/A
- MMO-MUG P/A

RESULT:

- PRESENT
- ABSENT

ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauller  
HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 09

TEST:  FECAL COLIFORM

E. COLI

METHOD:

- MF
- MPN
- E. C. P/A
- MMO-MUG P/A

RESULT:

- PRESENT
- ABSENT

ANALYST:

SAMPLE SOURCE (CHECK ONE):

- Drinking Water
- Swimming Pool
- Spa/Hot Tub
- Bathing Beach
- Surface Water-Ditch, etc.
- Ice
- Meat/Poultry Plant
- Bottled Water
- Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC PLATE COUNT

\_\_\_ /1.0 ML \_\_\_ /0.1 ML

NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS 1/4 mi<sup>te</sup> east of 500E ON S.R. 124

LOCATION Culvert

PHONE \_\_\_\_\_

DATE COLLECTED 4-6-99 TIME COLLECTED 9:50a.m.

Report of Samples

- SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.
- UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.
- PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:
  - Too long in transit (more than 48 hours).
  - Invalid/no collection date.
  - Incomplete information.
  - Other \_\_\_\_\_

ADDITIONAL REPORTS ARE TO BE MAILED TO:

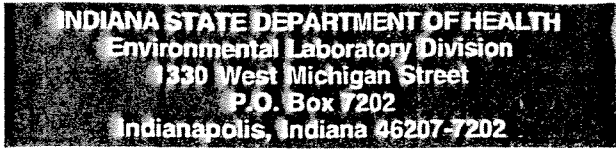
Name) \_\_\_\_\_  
Street) \_\_\_\_\_  
IN \_\_\_\_\_  
(Zip) \_\_\_\_\_

ISDH - LABS



TIME OF ANALYSIS 1:25

D



Sample Number 1379  
Date Received OCT 28 1999

Date Rep. \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:  
\_\_\_\_\_  
(Name)  
\_\_\_\_\_  
(Street)  
\_\_\_\_\_ IN \_\_\_\_\_  
(City or Town) (Zip)

ANALYSIS DATA--TO BE COMPLETED BY LAB  
TEST: TOTAL COLIFORM  
METHOD:\*  
 MF  MPN  LST P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT         
ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauller  
 HEALTH OFFICIAL Wells  
(COUNTY)  
IDENTIFICATION NUMBER 9 0 H 0 0 0 1 BOTTLE NUMBER 0 7

TEST:  FECAL COLIFORM  E. COLI  
METHOD:\*  
 MF  MPN  E. C. P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT       20  
ANALYST:

SAMPLE SOURCE (CHECK ONE):  
 Drinking Water  Swimming Pool  Spa/Hot Tub  
 Bathing Beach  Surface Water-Ditch, etc.  Ice  
 Meat/Poultry Plant  Bottled Water  Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).  
Incidental Pseudomonas Detected

OTHER \_\_\_\_\_  
NAME/ORGANIZATION Walter McKinney Ditch Watershed  
ADDRESS 1/4 mile east of 500E south side of S.R. 124  
LOCATION culvert  
PHONE N/A  
DATE COLLECTED 10-28-99 TIME COLLECTED 9:10 a.m.

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML  
TIME OF ANALYSIS 2:15

ADDITIONAL REPORTS ARE TO BE MAILED TO:  
\_\_\_\_\_  
(Name)  
\_\_\_\_\_  
(Street)  
\_\_\_\_\_ IN \_\_\_\_\_  
(City or Town) (Zip)

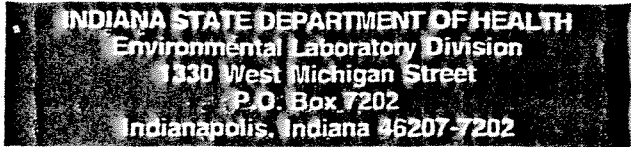
Report of Samples  
 SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.  
 UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.  
 PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:  
 Too long in transit (more than 48 hours).  
 Invalid/no collection date.  
 Incomplete information.  
 Other \_\_\_\_\_

ISDH - LABS



HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT FORM

5



Sample Number 00128

Date Rec'd. APR 12 1999 11

Date Received APR 06 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

**WELLS COUNTY HEALTH DEPT.**

(Name) 223 W. Washington, Suite 202  
BLUFFTON, IN 46714-1955

(Street) (219)-824-6489  
IN

(City or Town) \_\_\_\_\_ (Zip) \_\_\_\_\_

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*  
 MF  MPN  LST P/A  MMO-MUG P/A

RESULT:  
 PRESENT  ABSENT

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Muller

HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER 90400001 BOTTLE NUMBER 04

TEST:  FECAL COLIFORM  E. COLI HP

METHOD:\*  
 MF  MPN  E. C. P/A  MMO-MUG P/A

RESULT:  
 PRESENT  ABSENT          50

ANALYST: \_\_\_\_\_

SAMPLE SOURCE (CHECK ONE):

Drinking Water  Swimming Pool  Spa/Hot Tub

Bathing Beach  Surface Water-Ditch, etc.  Ice

Meat/Poultry Plant  Bottled Water  Dairy

OTHER \_\_\_\_\_

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

NAME/ORGANIZATION Water McKinney Ditch Watershed

ADDRESS 0.15 mile north of 4 way stop S rd 01

LOCATION Tile from west <sup>north</sup> → ON west side S.R. 201

PHONE N/A

DATE COLLECTED 4-6-99 TIME COLLECTED 9:25 a.m.

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

Too long in transit (more than 48 hours).

Invalid/no collection date.

Incomplete information.

Other \_\_\_\_\_

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

IN \_\_\_\_\_ (Zip) \_\_\_\_\_

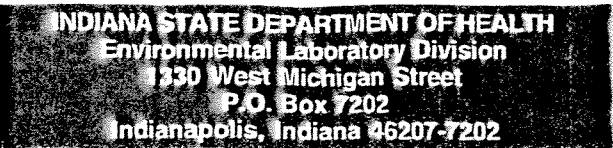
ISDH - LABS



\*46314\*

TIME OF ANALYSIS 1 : 25





Sample Number 1378

Date Rep. \_\_\_\_\_

Date Received OCT 28 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
 Indiana State Department of Health is to mail report to:

\_\_\_\_\_  
 (Name)

\_\_\_\_\_  
 (Street)

\_\_\_\_\_ IN \_\_\_\_\_  
 (City or Town) (Zip)

**ANALYSIS DATA--TO BE COMPLETED BY LAB**

TEST: TOTAL COLIFORM

METHOD:\*  
 MF  MPN  LST P/A  MMO-MUG P/A

RESULT:  
 PRESENT  ABSENT [ ][ ][ ][ ][ ][ ][ ][ ]

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Mauler  
 HEALTH OFFICIAL Wells  
 (COUNTY)

IDENTIFICATION NUMBER BOTTLE NUMBER

9	0	H	0	0	0	1		0	4
---	---	---	---	---	---	---	--	---	---

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*  
 MF  MPN  E. C. P/A  MMO-MUG P/A

RESULT:  
 PRESENT  ABSENT [ ][ ][ ][ ][ ]/30

ANALYST: \_\_\_\_\_

**SAMPLE SOURCE (CHECK ONE):**

Drinking Water  Swimming Pool  Spa/Hot Tub

Bathing Beach  Surface Water-Ditch, etc.  Ice

Meat/Poultry Plant  Bottled Water  Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
 If MF is checked the result is organisms per 100 ml.  
 If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

TIME OF ANALYSIS 2:15

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

NAME/ORGANIZATION Walter McKinney Ditch Watershed  
0.15 mile north of Elm Grove Rd.  
 ADDRESS \_\_\_\_\_  
 LOCATION Tile from the northwest on west side of S.R. 201  
 PHONE N/A  
 DATE COLLECTED 10-28-99 TIME COLLECTED 2:53 a.m.

**Report of Samples**

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

Too long in transit (more than 48 hours).

Invalid/no collection date.

Incomplete information.

Other \_\_\_\_\_

ADDITIONAL REPORTS ARE TO BE MAILED TO:

\_\_\_\_\_  
 (Name)

\_\_\_\_\_  
 (Street)

\_\_\_\_\_ IN \_\_\_\_\_  
 (City or Town) (Zip)



HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT FORM

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Laboratory Division  
1330 West Michigan Street  
P.O. Box 7202  
Indianapolis, Indiana 46207-7202

Sample Number 00130  
Date Received APR 06 1999

Date Rep. APR 12 1999 11

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:  
**WELLS COUNTY HEALTH DEPT.**  
(Name) 223 W. Washington, Suite 202  
BLUFFTON IN 46714-1955  
(Street) (219)-824-6489  
IN  
(City or Town) IN (Zip)

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM  
METHOD:  MF  MPN  LST P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT          
ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauler  
HEALTH OFFICIAL Wells  
(COUNTY)  
IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 09

TEST:  FECAL COLIFORM  E. COLI  
METHOD:  MF  MPN  E. C. P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT   26000    
ANALYST:

SAMPLE SOURCE (CHECK ONE):

- Drinking Water  Swimming Pool  Spa/Hot Tub
- Bathing Beach  Surface Water-Ditch, etc.  Ice
- Meat/Poultry Plant  Bottled Water  Dairy
- OTHER

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

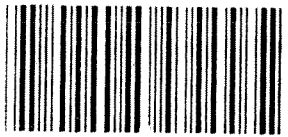
NAME/ORGANIZATION Walter McKinney Ditch Watershed  
ADDRESS culvert north of 05155 500E  
LOCATION west of culver on west side of 500E  
PHONE N/A  
DATE COLLECTED 4-6-99 TIME COLLECTED 10:05

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.  
 UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.  
 PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:  
 Too long in transit (more than 48 hours).  
 Invalid/no collection date.  
 Incomplete information.  
 Other

ADDITIONAL REPORTS ARE TO BE MAILED TO:  
(Name) \_\_\_\_\_  
(Street) \_\_\_\_\_  
(City) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ISDH - LABS



TIME OF ANALYSIS 1:25

HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT FORM

**INDIANA STATE DEPARTMENT OF HEALTH**  
 Environmental Laboratory Division  
 1330 West Michigan Street  
 P.O. Box 7202  
 Indianapolis, Indiana 46207-7202

Sample Number 1374

Date Received OCT 28 1999

Date Rep. \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
 Indiana State Department of Health is to mail report to:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*  
 MF  MPN  LST P/A  MMO-MUG P/A

RESULT:  
 PRESENT  ABSENT

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Mauller

HEALTH OFFICIAL Wells  
 (COUNTY)

IDENTIFICATION NUMBER 9 0 H 0 0 0 1 BOTTLE NUMBER 0 9

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*  
 MF  MPN  E. C. P/A  MMO-MUG P/A

RESULT:  
 PRESENT  ABSENT   1 2 0 0 0 0

ANALYST: \_\_\_\_\_

SAMPLE SOURCE (CHECK ONE):

Drinking Water  Swimming Pool  Spa/Hot Tub

Bathing Beach  Surface Water-Ditch, etc.  Ice

Meat/Poultry Plant  Bottled Water  Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
 If MF is checked the result is organisms per 100 ml.  
 If P/A is checked the result is presence (P) or absence (A).  
 Incidental Pseudomonas Detected

TIME OF ANALYSIS 2:15

OTHER \_\_\_\_\_

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS Culvert north of 0515S 500E

LOCATION west of culvert on west side/500E

PHONE N/A

DATE COLLECTED 10-28-99 TIME COLLECTED 9:17a.m.

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

Too long in transit (more than 48 hours).

Invalid/no collection date.

Incomplete information.

Other \_\_\_\_\_

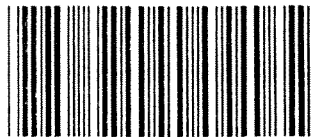
ADDITIONAL REPORTS ARE TO BE MAILED TO:

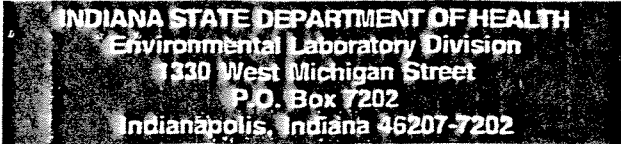
(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ISDH - LABS





APR 12 1999 11

Date Rep. \_\_\_\_\_

Sample Number 00132

APR 06 1999

Date Received \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK. Indiana State Department of Health is to mail report to:

WELLS COUNTY HEALTH DEPT. (Name) 223 W. Washington, Suite 202 (Street) BLUFFTON, IN 46714-1955 (219)-824-6489 (City or Town) IN (Zip)

ANALYSIS DATA--TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM METHOD: MF MPN LST P/A MMO-MUG P/A RESULT: PRESENT ABSENT ANALYST:

SAMPLE SUBMITTED BY: Linda S. Maulhey HEALTH OFFICIAL Wells (COUNTY)

IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 08

TEST: FECAL COLIFORM E. COLI METHOD: MF MPN E. C. P/A MMO-MUG P/A RESULT: PRESENT ABSENT ANALYST:

SAMPLE SOURCE (CHECK ONE):

- Drinking Water Swimming Pool Spa/Hot Tub Bathing Beach Surface Water-Ditch, etc. Ice Meat/Poultry Plant Bottled Water Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml. If MF is checked the result is organisms per 100 ml. If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

OTHER NAME/ORGANIZATION Walter McKinney Ditch Watershed ADDRESS Culvert North of 05155 500E LOCATION 50' North of culvert on east PHONE N/A DATE COLLECTED 4-6-99 TIME COLLECTED 10:00

HETEROTROPHIC PLATE COUNT /1.0 ML /0.1 ML

Report of Samples

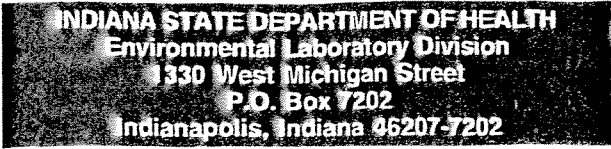
SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards. UNSATISFACTORY: At examination time, this water was bacteriologically unsafe. PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE: Too long in transit (more than 48 hours). Invalid/no collection date. Incomplete information. Other

ADDITIONAL REPORTS ARE TO BE MAILED TO: (Name) (Street) IN (Zip)

ISDH - LABS



TIME OF ANALYSIS 1:25



Sample Number 1375

Date Rep. \_\_\_\_\_

Date Received 10-20-99

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK. Indiana State Department of Health is to mail report to: (Name) (Street) IN (City or Town) (Zip)

ANALYSIS DATA-TO BE COMPLETED BY LAB TEST: TOTAL COLIFORM METHOD: MF MPN LST P/A MMO-MUG P/A RESULT: PRESENT ABSENT ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauller HEALTH OFFICIAL Wells (COUNTY)

TEST: FECAL COLIFORM E. COLI METHOD: MF MPN E. C. P/A MMO-MUG P/A RESULT: PRESENT ABSENT ANALYST:

IDENTIFICATION NUMBER BOTTLE NUMBER 9 0 H 0 0 0 1 0 8

SAMPLE SOURCE (CHECK ONE): Drinking Water Swimming Pool Spa/Hot Tub Bathing Beach Surface Water-Ditch, etc. Ice Meat/Poultry Plant Bottled Water Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml. If MF is checked the result is organisms per 100 ml. If P/A is checked the result is presence (P) or absence (A). Incidental Pseudomonas Detected

TIME OF ANALYSIS 2:15 OTHER

HETEROTROPHIC PLATE COUNT /1.0 ML /0.1 ML

NAME/ORGANIZATION Walter McKinney Ditch Watershed

Report of Samples SATISFACTORY: UNSATISFACTORY: PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE: Too long in transit (more than 48 hours). Invalid/no collection date. Incomplete information. Other

ADDRESS culvert north of 0515S 500E LOCATION 50' north of culvert on east side PHONE N/A DATE COLLECTED 10-28-99 TIME COLLECTED 9:14 a.m.

ADDITIONAL REPORTS ARE TO BE MAILED TO: (Name) (Street) IN (City or Town) (Zip)



H

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Laboratory Division  
1330 West Michigan Street  
P.O. Box 7202  
Indianapolis, Indiana 46207-7202

Sample Number 00129

Date Rec'd APR 12 1999

Date Received APR 06 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:  
**WELLS COUNTY HEALTH DEPT.**  
(Name) 223 W. Washington, Suite 202  
(Street) BLUFFTON, IN 46714-1955  
(City or Town) IN (Zip) (219)-824-6489

ANALYSIS DATA-TO BE COMPLETED BY LAB  
TEST: TOTAL COLIFORM  
METHOD: \*  
 MF  MPN  LST P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT [ ] [ ] [ ] [ ] [ ] [ ]  
ANALYST:

SAMPLE SUBMITTED BY: Linda J. Mauller  
HEALTH OFFICIAL Wells  
(COUNTY)

TEST:  FECAL COLIFORM  E. COLI  
METHOD: \*  
 MF  MPN  E. C. P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]  
ANALYST:

IDENTIFICATION NUMBER BOTTLE NUMBER  
90400001 02

SAMPLE SOURCE (CHECK ONE):

- Drinking Water  Swimming Pool  Spa/Hot Tub
- Bathing Beach  Surface Water-Ditch, etc.  Ice
- Meat/Poultry Plant  Bottled Water  Dairy

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

OTHER

NAME/ORGANIZATION Walter McKinney Ditch Watershed  
ADDRESS 450E / S.E. 201 / 124  
LOCATION Bridge east of 450E on S.E. 201  
PHONE NA  
DATE COLLECTED 4-6-99 TIME COLLECTED 9:10 a.m.

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

ADDITIONAL REPORTS ARE TO BE MAILED TO:

Name \_\_\_\_\_  
Street \_\_\_\_\_  
IN \_\_\_\_\_  
(City) \_\_\_\_\_ (Zip) \_\_\_\_\_

Report of Samples  
 SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.  
 UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.  
 PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:  
 Too long in transit (more than 48 hours).  
 Invalid/no collection date.  
 Incomplete information.  
 Other \_\_\_\_\_

ISDH - LABS



TIME OF ANALYSIS 1:25

**INDIANA STATE DEPARTMENT OF HEALTH**  
 Environmental Laboratory Division  
 1330 West Michigan Street  
 P.O. Box 7202  
 Indianapolis, Indiana 46207-7202

Sample Number 1377

Date Received OCT 28 1999

Date Rep. \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.

Indiana State Department of Health is to mail report to:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*

- MF  MPN  LST P/A  MMO-MUG P/A

RESULT:

- PRESENT  ABSENT [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Mauller

HEALTH OFFICIAL Wells

(COUNTY)

IDENTIFICATION NUMBER

BOTTLE NUMBER

[9] [0] [H] [0] [0] [0] [1] [ ]

[0] [2]

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*

- MF  MPN  E. C. P/A  MMO-MUG P/A

RESULT:

- PRESENT  ABSENT [ ][ ][ ][ ][8] [4] [0]

ANALYST: \_\_\_\_\_

SAMPLE SOURCE (CHECK ONE):

Drinking Water  Swimming Pool  Spa/Hot Tub

Bathing Beach  Surface Water-Ditch, etc.  Ice

Meat/Poultry Plant  Bottled Water  Dairy

OTHER TIME OF ANALYSIS 2:15

HETEROTROPHIC

PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

- Too long in transit (more than 48 hours).
- Invalid/no collection date.
- Incomplete information.
- Other \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS 450E/S.R. 201

LOCATION Bridge east of 450E on S.R. 201

PHONE N/A

DATE COLLECTED 10-28-99 TIME COLLECTED 8:45a.m

ADDITIONAL REPORTS ARE TO BE MAILED TO:

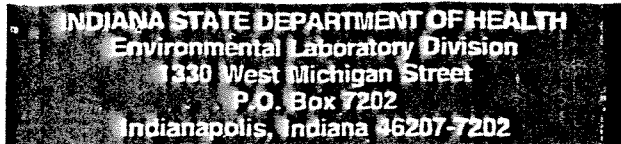
(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

City or Town \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

**ISDH - LABS**





Sample Number 00135  
APR 00 1999  
Date Received \_\_\_\_\_

Date Recp. APR 12 1999 11

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

(Name) WELLS COUNTY HEALTH DEPT.  
223 W. Washington, Suite 202  
(Street) BLUFFTON, IN 46714-1955  
(City or Town) IN (Zip) (219)-824-6489

SAMPLE SUBMITTED BY: Linda J. Mueller

HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 03

SAMPLE SOURCE (CHECK ONE):

- Drinking Water
- Swimming Pool
- Spa/Hot Tub
- Bathing Beach
- Surface Water-Ditch, etc.
- Ice
- Meat/Poultry Plant
- Bottled Water
- Dairy

OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS S.R. 201

LOCATION roadside ditch west of

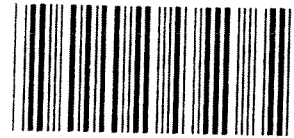
PHONE NA

DATE COLLECTED 9-4-99 TIME COLLECTED 9:15 a.m.

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_  
(Street) \_\_\_\_\_  
(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ISDH - LABS



ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM  
METHOD:\*  
 MF  MPN  LST P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT [ ][ ][ ][ ][ ][ ][ ][ ]  
ANALYST: \_\_\_\_\_

TEST:  FECAL COLIFORM  E. COLI  
METHOD:\*  
 MF  MPN  E. C. P/A  MMO-MUG P/A  
RESULT:  
 PRESENT  ABSENT [ ][ ] 20000 [ ][ ][ ][ ]  
ANALYST: \_\_\_\_\_

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

- SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.
- UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.
- PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID, BECAUSE:
  - Too long in transit (more than 48 hours).
  - Invalid/no collection date.
  - Incomplete information.
  - Other \_\_\_\_\_

TIME OF ANALYSIS 1:25





Sample Number 1383

Date Rep. \_\_\_\_\_

Date Received OCT 28 1999

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ANALYSIS DATA-TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*  
 MF     MPN     LST P/A     MMO-MUG P/A

RESULT:  
 PRESENT     ABSENT   

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Linda J. Mauller

HEALTH OFFICIAL Wells  
(COUNTY)

TEST:  FECAL COLIFORM     E. COLI

METHOD:\*  
 MF     MPN     E. C. P/A     MMO-MUG P/A

RESULT:  
 PRESENT     ABSENT   

ANALYST: 12,000 - 200

IDENTIFICATION NUMBER    BOTTLE NUMBER

9	0	H	0	0	0	1		0	3
---	---	---	---	---	---	---	--	---	---

SAMPLE SOURCE (CHECK ONE):

Drinking Water     Swimming Pool     Spa/Hot Tub

Bathing Beach     Surface Water-Ditch, etc.     Ice

\*If MPN is checked the result is the most probable number of organisms per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Meat/Poultry Plant     Bottled Water     Dairy

OTHER \_\_\_\_\_

HETEROTROPHIC PLATE COUNT    \_\_\_\_\_ /1.0 ML    \_\_\_\_\_ /0.1 ML

TIME OF ANALYSIS 2:30

NAME/ORGANIZATION Walter McKinney Ditch Watershed

ADDRESS S.R. 201

LOCATION roadside ditch west of 4741E S.R. 201

PHONE N/A

DATE COLLECTED 10-28-99 TIME COLLECTED 8:49a.m

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

Too long in transit (more than 48 hours).

Invalid/no collection date.

Incomplete information.

Other \_\_\_\_\_

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (Zip) \_\_\_\_\_

ISDH - LABS



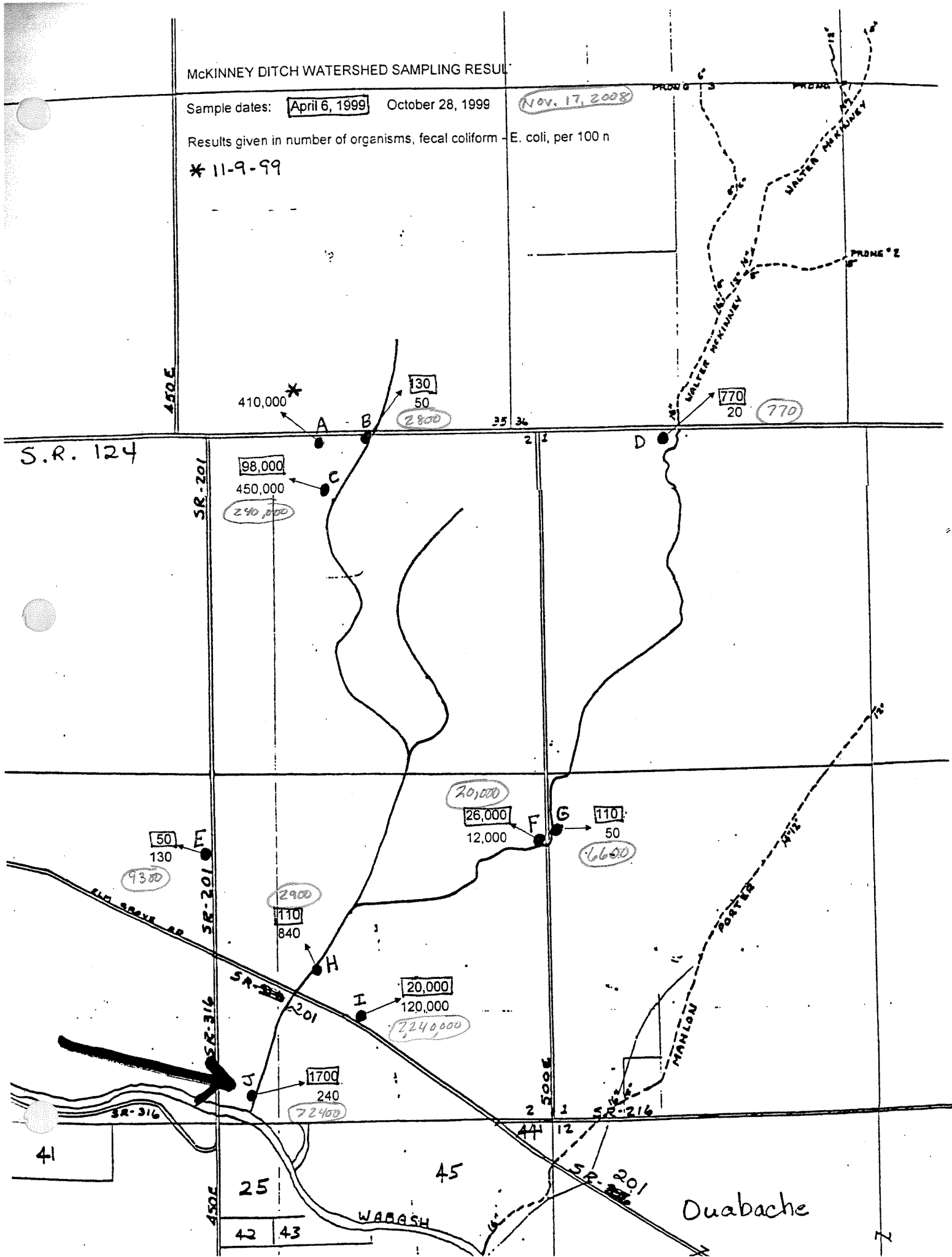


McKINNEY DITCH WATERSHED SAMPLING RESULT

Sample dates: April 6, 1999    October 28, 1999    Nov. 17, 2008

Results given in number of organisms, fecal coliform - E. coli, per 100 ml

\* 11-9-99







HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

11

Shipping Number

08 NOV 17 PM 12:41

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Microbiology  
550 W. 16<sup>th</sup> Street, Suite B  
Indianapolis, Indiana 46202-2203

Sample Number

000810

Date Recd.

Date Received 11-08-09 09:57 RCY

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

Name: WELLS COUNTY HEALTH DEPT.  
223 W. Washington, Suite 202  
Street: BLUFFTON, IN 46714-1955  
(200) 624-6469  
City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz

HEALTH OFFICIAL: Wells  
(COUNTY)

IDENTIFICATION NUMBER BOTTLE NUMBER

90H0001

03

EMAIL: hbutz@wellscounty.org

SAMPLE SOURCE (CHECK ONE):

- Drinking Water
- Swimming Pool
- Spa/Hot Tub
- Bathing Beach
- Surface Water-Ditch, etc.
- Ice
- Meat/Poultry Plant
- Bottled Water
- Dairy

OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Watershed

ADDRESS S.R. 201

LOCATION roadside ditch west of 4741 ESR201

PHONE NA

DATE COLLECTED 11-13-09 TIME COLLECTED 9:55

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_  
**SAMPLE TRANSIT TIME > 6 HOURS**  
(Street) \_\_\_\_\_  
**RESULTS MAY BE INVALID**  
IN \_\_\_\_\_  
(City or Town) \_\_\_\_\_ (ZIP) \_\_\_\_\_

State Form 36740

TIME OF ANALYSIS 11:00

ANALYSIS DATA--TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*

- MF
- MPN
- LST P/A
- MM P/A
- MM QT

RESULT:

- PRESENT
- ABSENT

ANALYST: \_\_\_\_\_

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*

- MF
- MPN
- EC P/A
- MM P/A
- MM QT

RESULT:

- PRESENT
- ABSENT

ANALYST: \_\_\_\_\_

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC

PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

- SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.
- UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.
- PLEASE SUBMIT ANOTHER SAMPLE.  
TEST NOT VALID BECAUSE:
  - Too long in transit (more than 30 hours).
  - Invalid/no collection date.
  - Incomplete information.
  - Other \_\_\_\_\_

ISDH - LABS



\*902018\*

HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Microbiology  
550 W. 16<sup>th</sup> Street, Suite B  
Indianapolis, Indiana 46202-2203

000811

Shipping Number \_\_\_\_\_

Sample Number \_\_\_\_\_

08 NOV 17 PM 12:41

Date Rep. \_\_\_\_\_

Date Received 11-14-08 09:57 RCVD

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

Name: WELLS COUNTY HEALTH DEPT.  
223 W. Washington, Suite 202  
Street: BLUFFTON, IN 46714-1955  
(260) 824-6489  
City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

ANALYSIS DATA--TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*  
 MF     MPN     LST P/A     MM P/A     MM QT

RESULT:  
 PRESENT               
 ABSENT

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz

HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 04

EMAIL hbutz@wellscounty.org

- SAMPLE SOURCE (CHECK ONE):
- Drinking Water
  - Swimming Pool
  - Spa/Hot Tub
  - Bathing Beach
  - Surface Water-Ditch, etc.
  - Ice
  - Meat/Poultry Plant
  - Bottled Water
  - Dairy
  - OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Watershed

ADDRESS 15 mile north of 4way stop of SR.201 & Elm Grove Rd

LOCATION Tile from NW, on west side of SR.201

PHONE NA

DATE COLLECTED 11-13-08 TIME COLLECTED 10:45

TEST:  FECAL COLIFORM     E. COLI

METHOD:\*  
 MF     MPN     EC P/A     MM P/A     MM QT

RESULT:  
 PRESENT        9300  
 ABSENT

ANALYST: [Signature]

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (ZIP) \_\_\_\_\_

**SAMPLE TRANSIT TIME > 6 HOURS  
RESULTS MAY BE INVALID**

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE.  
TEST NOT VALID BECAUSE:

- Too long in transit (more than 30 hours).
- Invalid/no collection date.
- Incomplete information.
- Other \_\_\_\_\_

State Form 3674a (R7 / 9-07)

TIME OF ANALYSIS 11 : 00

ISDH - LABS



\*902014\*

HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

12

Shipping Number \_\_\_\_\_

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Microbiology  
550 W. 16<sup>th</sup> Street, Suite B  
Indianapolis, Indiana 46202-2203

Sample Number 812

Date Recd NOV 17 PM 12:41

Date Received 11-14-08 09:58 RCVD

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

Name: WELLS COUNTY HEALTH DEPT.  
223 W. Washington, Suite 202  
Street: BLUFFTON, IN 46714-1955  
(260) 824-6489  
City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz  
 HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 05

EMAIL hbutz@wellscounty.org

SAMPLE SOURCE (CHECK ONE):

- Drinking Water
- Swimming Pool
- Spa/Hot Tub
- Bathing Beach
- Surface Water-Ditch, etc.
- Ice
- Meat/Poultry Plant
- Bottled Water
- Dairy
- OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Watershed  
ADDRESS 25 miles west of 500E on S.R. 124  
LOCATION metal culvert south side  
PHONE NA  
DATE COLLECTED 11-13-08 TIME COLLECTED 10:35

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_  
(Street) \_\_\_\_\_  
(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (ZIP) \_\_\_\_\_

State Form 36740 (R7 / 9-07)

ANALYSIS DATA--TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*

- MF
- MPN
- LST P/A
- MM P/A
- MM QT

RESULT:

- PRESENT
- ABSENT

ANALYST: \_\_\_\_\_

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*

- MF
- MPN
- EC P/A
- MM P/A
- MM QT

RESULT:

- PRESENT
- ABSENT

ANALYST: \_\_\_\_\_

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC

PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

- SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.
- UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.
- PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:
  - Too long in transit (more than 30 hours).
  - Invalid/no collection date.
  - Incomplete information.
  - Other \_\_\_\_\_

SAMPLE TRANSIT TIME > 6 HOURS  
RESULTS MAY BE INVALID

TIME OF ANALYSIS 11 : 00

ISDH - LABS



\*982012\*



HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

Shipping Number \_\_\_\_\_

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Microbiology  
550 W. 16<sup>th</sup> Street, Suite B  
Indianapolis, Indiana 46202-2203

Sample Number 813

11-14-08 09:58 RCVD

Date Received \_\_\_\_\_

te Rep NOV 17 PM 12:14

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:

Name: WELLS COUNTY HEALTH DEPT.  
223 W. Washington, Suite 202  
Street: BLUFFTON, IN 46714-1955  
(260) 824-6489  
City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz

HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER BOTTLE NUMBER

9040001 06

EMAIL hbutz@wellscounty.org

SAMPLE SOURCE (CHECK ONE):

- Drinking Water
- Swimming Pool
- Spa/Hot Tub
- Bathing Beach
- Surface Water-Ditch, etc.
- Ice
- Meat/Poultry Plant
- Bottled Water
- Dairy

OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Watershed

ADDRESS 2.5 miles west of 500E South of SR 124

LOCATION concrete structure 250' south of road

PHONE NA

DATE COLLECTED 11-13-08 TIME COLLECTED 1:00

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_  
(Street) \_\_\_\_\_  
(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (ZIP) \_\_\_\_\_

**SAMPLE TRANSIT TIME > 6 HOURS  
RESULTS MAY BE INVALID**

State Form 36740 (R7-9-07)

**TIME OF ANALYSIS** 11:00

ANALYSIS DATA--TO BE COMPLETED BY LAB

TEST: TOTAL COLIFORM

METHOD:\*

- MF
- MPN
- LST P/A
- MM P/A
- MM QT

RESULT:

- PRESENT
- ABSENT

ANALYST: \_\_\_\_\_

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*

- MF
- MPN
- EC P/A
- MM P/A
- MM QT

RESULT:

- PRESENT
- ABSENT

ANALYST: [Signature]

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC

PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

- SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.
- UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.
- PLEASE SUBMIT ANOTHER SAMPLE.  
TEST NOT VALID BECAUSE:
  - Too long in transit (more than 30 hours).
  - Invalid/no collection date.
  - Incomplete information.
  - Other \_\_\_\_\_

ISDH - LABS



\*902020\*





HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

**INDIANA STATE DEPARTMENT OF HEALTH**  
**Environmental Microbiology**  
 550 W. 16<sup>th</sup> Street, Suite B  
 Indianapolis, Indiana 46202-2203

Shipping Number \_\_\_\_\_

Sample Number 216

Date Rep. \_\_\_\_\_

11-14-08 09:58 R

Date Received \_\_\_\_\_

08 NOV 17 PM 12:51

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
 Indiana State Department of Health is to mail report to:

Name: WELLS COUNTY HEALTH DEPT.  
223 W. Washington, Suite 202  
 Street: BLUFFTON, IN 46714-1955  
(260) 824-6489  
 City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

**ANALYSIS DATA--TO BE COMPLETED BY LAB**

TEST: TOTAL COLIFORM

METHOD:\*  
 MF  MPN  LST P/A  MM P/A  MM QT

RESULT:  
 PRESENT            
 ABSENT

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz

HEALTH OFFICIAL Wells  
 (COUNTY)

IDENTIFICATION NUMBER 9040001 BOTTLE NUMBER 09

EMAIL hbutz@wellscounty.org

- SAMPLE SOURCE (CHECK ONE):
- Drinking Water
  - Swimming Pool
  - Spa/Hot Tub
  - Bathing Beach
  - Surface Water-Ditch, etc.
  - Ice
  - Meat/Poultry Plant
  - Bottled Water
  - Dairy
  - OTHER \_\_\_\_\_

NAME/ORGANIZATION Walter McKinney Watershed  
 ADDRESS Culvert north of 05155 500E  
 LOCATION west of culvert on west side of 500E  
 PHONE NA  
 DATE COLLECTED 11-13-08 TIME COLLECTED 10:05 am

TEST:  FECAL COLIFORM  E. COLI

METHOD:\*  
 MF  MPN  EC P/A  MM P/A  MM QT

RESULT:  
 PRESENT    2 0 0 0 0  
 ABSENT

ANALYST: \_\_\_\_\_

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
 If MF is checked the result is organisms per 100 ml.  
 If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

ADDITIONAL REPORTS ARE TO BE MAILED TO:

(Name) \_\_\_\_\_

(Street) \_\_\_\_\_

(City or Town) \_\_\_\_\_ IN \_\_\_\_\_ (ZIP) \_\_\_\_\_

**Report of Samples**

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

- Too long in transit (more than 30 hours).
- Invalid/no collection date.
- Incomplete information.
- Other \_\_\_\_\_

TIME OF ANALYSIS 11:00

**ISDH - LABS**















E

# HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

**INDIANA STATE DEPARTMENT OF HEALTH**  
Environmental Microbiology  
550 W. 16<sup>th</sup> Street, Suite B  
Indianapolis, Indiana 46202-2203

Shipping Number \_\_\_\_\_  
12-16-11 09:37 OUT  
Date Rep. \_\_\_\_\_

Sample Number 0 681  
12-14-11 14:00 RCVD  
Date Received \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. **USE BLACK INK.**  
Indiana State Department of Health is to mail report to:  
**WELLS COUNTY HEALTH DEPT.**  
223 W. Washington, Suite 202  
BLUFFTON, IN 46714-1955  
(260) 824-6489  
Name: \_\_\_\_\_  
Street: \_\_\_\_\_  
City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

**ANALYSIS DATA--TO BE COMPLETED BY LAB**

**TEST: TOTAL COLIFORM**

**METHOD:\***  
 MF     MPN     LST P/A     MM P/A     MM QT

**RESULT:**  
 PRESENT    [ ] [ ] [ ] [ ] [ ] [ ]  
 ABSENT

ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz  
 HEALTH OFFICIAL Wells (COUNTY)

IDENTIFICATION NUMBER 90H00001    BOTTLE NUMBER [ ] [ ]

EMAIL hbutz@wellscounty.org

**SAMPLE SOURCE (CHECK ONE):**

- Drinking Water     Swimming Pool     Spa/Hot Tub
- Bathing Beach     Surface Water-Ditch, etc.     Ice
- Meat/Poultry Plant     Bottled Water     Dairy
- OTHER \_\_\_\_\_

NAME/ORGANIZATION McKinney Watershed  
ADDRESS 15 mi north of Elm Grove Rd on SR201  
LOCATION Tile from NW on west side of rd  
PHONE NA  
DATE COLLECTED 12-14-11    TIME COLLECTED 11:30

ADDITIONAL REPORTS ARE TO BE MAILED TO:  
\_\_\_\_\_  
(Name)  
**TIME OF ANALYSIS** 14:25  
\_\_\_\_\_  
(Street)  
\_\_\_\_\_  
(City or Town)    IN    \_\_\_\_\_ (ZIP)

**TEST:**     FECAL COLIFORM     E. COLI

**METHOD:\***  
 MF     MPN     EC P/A     MM P/A     MM QT

**RESULT:**  
 PRESENT    [ ] [ ] [ ] [ ] [ ] [ ] 2400  
 ABSENT

ANALYST: Hj

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected

HETEROTROPHIC  
PLATE COUNT \_\_\_\_\_ /1.0 ML    \_\_\_\_\_ /0.1 ML

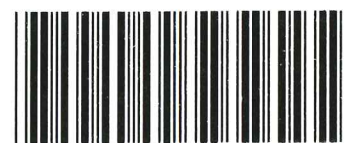
## Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.

UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.

PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:

- Too long in transit (more than 30 hours).
- Invalid/no collection date.
- Incomplete information.
- Other \_\_\_\_\_



HEALTH OFFICIAL/POOLS & SPAS/BEACHES & LAKES REPORT

INDIANA STATE DEPARTMENT OF HEALTH  
Environmental Microbiology  
550 W. 16<sup>th</sup> Street, Suite B  
Indianapolis, Indiana 46202-2203

Shipping Number \_\_\_\_\_  
12-16-11 09:37 OUT  
Date Rep. \_\_\_\_\_

Sample Number 0 682  
12-14-11 14:00 RCVD  
Date Received \_\_\_\_\_

SAMPLES SUBMITTED WITHOUT COMPLETED FORM WILL NOT BE ANALYZED. USE BLACK INK.  
Indiana State Department of Health is to mail report to:  
**WELLS COUNTY HEALTH DEPT.**  
Name: 223 W. Washington, Suite 202  
Street: BLUFFTON, IN 46714-1955  
(260) 824-6489  
City: \_\_\_\_\_ IN (ZIP) \_\_\_\_\_

**ANALYSIS DATA--TO BE COMPLETED BY LAB**  
TEST: TOTAL COLIFORM  
METHOD:\*  
 MF  MPN  LST P/A  MM P/A  MM QT  
RESULT:  
 PRESENT            
 ABSENT  
ANALYST: \_\_\_\_\_

SAMPLE SUBMITTED BY: Heath Butz  
 HEALTH OFFICIAL Wells  
(COUNTY)

IDENTIFICATION NUMBER BOTTLE NUMBER  
90H00001   

EMAIL hbutz@wellscounty.org

SAMPLE SOURCE (CHECK ONE):  
 Drinking Water  Swimming Pool  Spa/Hot Tub  
 Bathing Beach  Surface Water-Ditch, etc.  Ice  
 Meat/Poultry Plant  Bottled Water  Dairy  
 OTHER \_\_\_\_\_

NAME/ORGANIZATION McKinney Watershed  
ADDRESS 2.5 mi west of 500E on SR 124  
LOCATION Metal culvert south side  
PHONE NA  
DATE COLLECTED 12-14-11 TIME COLLECTED 11:05

ADDITIONAL REPORTS ARE TO BE MAILED TO:  
(Name) \_\_\_\_\_  
(Street) \_\_\_\_\_  
IN \_\_\_\_\_  
(City or Town) \_\_\_\_\_ (ZIP) \_\_\_\_\_

TEST:  FECAL COLIFORM  E. COLI  
METHOD:\*  
 MF  MPN  EC P/A  MM P/A  MM QT  
RESULT:  
 PRESENT            
 ABSENT  
ANALYST: \_\_\_\_\_

\*If MPN or MMQT is checked the result is the most probable number per 100ml.  
If MF is checked the result is organisms per 100 ml.  
If P/A is checked the result is presence (P) or absence (A).

Incidental Pseudomonas Detected   
HETEROTROPHIC  
PLATE COUNT \_\_\_\_\_ /1.0 ML \_\_\_\_\_ /0.1 ML

Report of Samples

SATISFACTORY: At examination time, this water was bacteriologically safe based on USEPA standards.  
 UNSATISFACTORY: At examination time, this water was bacteriologically unsafe.  
 PLEASE SUBMIT ANOTHER SAMPLE. TEST NOT VALID BECAUSE:  
 Too long in transit (more than 30 hours).  
 Invalid/no collection date.  
 Incomplete information.  
 Other \_\_\_\_\_

ISDH - LABS























# **APPENDIX 3**

CE 11/17

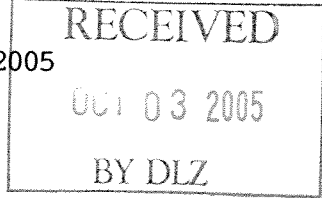


INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT  
*We make Indiana a cleaner, healthier place to live.*

Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

September 26, 2005



100 North Senate Avenue  
Indianapolis, Indiana 46204-2251  
(317) 232-8603  
(800) 451-6027  
www.IN.gov/idem

*Via Certified Mail # 7000 0600 0027 2042 3322*  
Mr. Randal Plummer, Commissioner President  
Wells County Board of County Commissioners  
105 West Market Street, Suite 205  
Bluffton, IN 47614-2032

*Via Certified Mail # 7000 0600 0027 2042 3315*  
Mr. Peter Cole, Council President  
Wells County Council  
105 West Market Street, Suite 205  
Bluffton, IN 47614-2032

Dear Mr. Plummer and Mr. Cole:    Re:    Adoption of Agreed Order  
Commissioner of the Department of Environmental  
Management  
v.  
Wells County Board of County Commissioners and  
Wells County Council  
Case No. 2002-11499-W

This is to inform you that the Agreed Order in the above-referenced case has been approved and adopted by the Indiana Department of Environmental Management. A copy of the Agreed Order is enclosed.

You are no doubt familiar with the terms of compliance contained in the Agreed Order. The time frames for compliance are effective upon your receipt of this correspondence.

Thank you for cooperation. If you have any questions, please contact Paul Cluxton at 317/232-8432.

Sincerely,  
*Mark W. Stanifer*  
Mark W. Stanifer, Chief  
Water Section  
Office of Enforcement

Enclosure  
cc:    Trent Patterson, Attorney at Law  
      Wells County Health Department  
      Andy Dodzik, P.E.  
      <http://www.state.in.us/idem> (enclosure only)





Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

STATE OF INDIANA )
) BEFORE THE INDIANA DEPARTMENT
) SS: OF ENVIRONMENTAL MANAGEMENT
COUNTY OF MARION )

COMMISSIONER OF THE DEPARTMENT )
OF ENVIRONMENTAL MANAGEMENT, )

Complainant, )

v. )

WELLS COUNTY BOARD OF COUNTY )
COMMISSIONERS, )

CASE NO. 2002-11499-W

and )

WELLS COUNTY COUNCIL, )

Respondents. )

AGREED ORDER

The Complainant and the Respondents desire to settle and compromise this action without hearing or adjudication of any issue of fact or law, and consent to the entry of the following Findings of Fact and Order. Pursuant to IC 13-30-3-3, entry into the terms of this Agreed Order does not constitute an admission of any violation contained herein. Respondent's entry into this Agreed Order shall not constitute a waiver of any defense, legal or equitable, which the Respondent may have in any future administrative or judicial proceeding, except a proceeding to enforce this order.

I. FINDINGS OF FACT

- 1. The Complainant is the Commissioner (Complainant) of the Indiana Department of Environmental Management, a department of the State of Indiana created by Indiana Code (IC) 13-13-1-1.
2. The Respondents are the Wells County Board of County Commissioners and the

- Wells County Council (Respondents or the Board and/or Council). The Respondents have jurisdiction over and responsibility for the septic tank systems and county ditches in the unincorporated areas of Wells County, including the McKinney and Paxson Ditches located north of the Ouabache State Park and east of the City of Bluffton in Wells County, Indiana (Site). The Wells County Board of County Commissioners (Respondent or Board) has been delegated the executive and legislative authority within the structure of Wells County government. The Wells County Council (Respondent or Council) has been delegated the fiscal responsibility and authority within the structure of the Wells County government.
3. The Indiana Department of Environmental Management (IDEM) has jurisdiction over the parties and subject matter of this action.
  4. Pursuant to IC 13-30-3-3, IDEM issued a Notice of Violation on March 22, 2005, via Certified Mail to Randal Plummer, President, Wells County Board of County Commissioners and Peter Cole, President, Wells County Council.
  5. Pursuant to IC 13-18-4-5, it is unlawful for any person to throw, run, drain, or otherwise dispose into any of the streams or waters of Indiana; or cause, permit, or suffer to be thrown, run, drained, allowed to seep, or otherwise disposed into any waters; any organic or inorganic matter that causes or contributes to a polluted condition of any waters, as determined by a rule of the board adopted under IC 13-18-4-1 and IC 13-18-4-3.
  6. Pursuant to 327 IAC 2-1-6(a)(1), all waters at all times and at all places, including the mixing zone, shall meet the minimum conditions of being free from substances, materials, floating debris, oil or scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges:
    - (A) that will settle to form putrescent or otherwise objectionable deposits;
    - (B) that are in amounts sufficient to be unsightly or deleterious;
    - (C) that produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;
    - (D) which are in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill aquatic life, other animals, plants or humans; and
    - (E) which are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.
  7. An IDEM investigation, which included a record review of Respondents' December 2002 Regional Sewer District Feasibility Study and accompanying Wells County Health Department bacterial sampling of local ditches, indicate septic tank systems of the unincorporated area of the McKinney and Paxson Ditches in Wells County discharge sewage into the McKinney and Paxson Ditches,

which are waters of the state. The sewage discharges contain E.coli bacteria in amounts sufficient to be deleterious and to produce conditions in such degree as to create a nuisance. Furthermore, because the Respondents allowed sewage to pollute waters of the state, and because the Respondents violated 327 IAC 2-1-6, which is a rule adopted by the Water Pollution Control Board pursuant to IC 13-18-3, the Respondents are in violation of IC 13-18-4-5.

8. Pursuant to IAC 327 IAC 5-2-2, any discharge of pollutants into waters of the state as a point source discharge, except for exclusions made in 327 IAC 5-2-4, is prohibited unless in conformity with a valid National Pollutant Discharge Elimination System (NPDES) permit obtained prior to the discharge.
9. Pursuant to IC 13-30-2-1, a person may not discharge, emit, cause, allow, or threaten to discharge, emit, cause, or allow any contaminant or waste including any noxious odor, either alone or in combination with contaminants from other sources, into the environment in any form which causes or would cause pollution which violates rules, standards, or discharge or emission requirements adopted by the appropriate board under the environmental management laws.
10. An IDEM investigation, which included a record review of Respondents' December 2002 Regional Sewer District Feasibility Study and accompanying Wells County Health Department bacterial sampling of local ditches, indicate septic tank systems of the unincorporated area of the McKinney and Paxson Ditches in Wells County discharge sewage into the McKinney and Paxson Ditches, which are waters of the state, without an NPDES permit. Therefore, the Respondents are in violation of 327 IAC 5-2-2. Furthermore, because the Respondents allowed the discharge of sewage, a waste, into the environment in a manner that violated 327 IAC 2-1-6 and 327 IAC 5-2-2, which are rules that were adopted by the Water Pollution Control Board under environmental management laws, the Respondents are in violation of IC 13-30-2-1.
11. On March 23, 1999, a public meeting of McKinney Ditch residents and potentially affected landowners was held at the Ouabache State Park with 18 households represented. Presentations were made by the IDEM Regional Sewer District coordinator and the Rural Community Assistance Program. Follow up meetings were held December 1999, and March and April 2000. Eight Paxson area residents met June 13, 2000.
12. On July 11, 2001, IDEM sent a Warning of Noncompliance letter to the Wells County Commissioners concerning septic tank discharges to the McKinney & Paxson ditches documented by Wells County Health Department bacteria sampling on April 6, 1999, and follow up sampling on October 28, 1999 and November 9, 1999. A response to IDEM from the Commissioners, dated September 18, 2001, "deferred this issue to the Wells County Health Board". A study was arranged to

- be done by DLZ Indiana, LLC and included wastewater concerns in several areas east, north and west of Bluffton. Their report was presented to the Respondents in December 2002. Options for the McKinney/Paxson Watershed area include collecting the sewage and pumping it to either the Bluffton sewer system or the Vera Cruz sewer force main.
13. There is a need for current follow up planning for solution(s) and consideration of formation of a Wells County Regional Sewer District to address the McKinney/Paxson Ditch areas and other unincorporated areas in Wells County with problem septic systems that continue to discharge to ditches.
  14. On May 2, 2005, the Respondents and IDEM participated in a settlement conference to discuss the enforcement documents.
  15. In recognition of the settlement reached, the Respondents waive any right to administrative and judicial review of this Agreed Order.

## **II. ORDER**

1. This Agreed Order shall be effective (Effective Date) when it is approved by the Complainant or his delegate, and has been received by the Respondents. This Agreed Order shall have no force or effect until the Effective Date.
2. The Respondents shall comply with all applicable provisions of the Indiana Code (IC) and the Indiana Administrative Code (IAC), including, but not limited to, IC 13-30-2-1, IC 13-18-4-5, 327 IAC 2-1-6(a)(1), and 327 IAC 5-2-2.
3. Within 180 days of the Effective Date of this Agreed Order, the Respondents shall take action to address the unlawful discharge of untreated sewage to waters of the state. Such action shall include, but not necessarily be limited to the following:
  - Signing a petition formally requesting the IDEM Commissioner to sign an order forming the Wells County Regional Sewer District to handle wastewater infrastructure needs and to cease the inadequately treated discharges from septic tank systems from discharging to the ground surface, entering ditches or other surface waters, beginning with the McKinney/Paxson Ditch area.

The petition states the purpose of forming the district, the territory to be served, the public benefits, how the district board may be structured, estimates for project costs, potential rates and charges, and funding sources.

The Respondents shall notify IDEM's Office of Enforcement, in writing, within 10 days of the completion of the above action. The notification shall include a description of the action completed, the date it was completed, and shall be sent to:

Paul Cluxton, case manager  
Indiana Department of Environmental Management  
Office of Enforcement – Mail Code 60-02  
100 North Senate Avenue  
Indianapolis, IN 46204-2251

4. In the event the terms and conditions of the following Order paragraphs are violated, the Complainant may assess and the Respondents shall pay a stipulated penalty in the following amount:

<b>Order Paragraph(s) Cited</b>	<b>Violation</b>	<b>Penalty due per violation</b>
3	Failure to submit a complete and timely petition for the formation of a Regional Sewer District.	\$500 per each week or part thereof late
3	Failure to timely submit notification to the case manager	\$250 per each week or part thereof late

5. Stipulated penalties shall be due and payable within 30 days after the Respondents receive written notice that the Complainant has determined a stipulated penalty is due. Assessment and payment of stipulated penalties shall not preclude the Complainant from seeking any additional relief against the Respondents for violation of the Agreed Order. In lieu of any of the stipulated penalties given above, the Complainant may seek any other remedies or sanctions available by virtue of the Respondents' violation of this Agreed Order, or Indiana law, including but not limited to civil penalties pursuant to IC 13-30-4.
6. Stipulated penalties are jointly and severally payable by check to the Environmental Management Special Fund. Checks shall include the Case Number (2002-11499-W) of this action and shall be mailed to:

Indiana Department of Environmental Management  
Cashiers Office – Mail Code 50-10C  
100 N. Senate Avenue  
Indianapolis, IN 46204-2251



7. In the event that any stipulated penalty amount assessed pursuant to Paragraphs 4 and 5 is not paid within 30 days of the receipt of notice that it is due, the Respondents shall pay interest on the unpaid balance at the rate established by IC 24-4.6-1-101. The interest shall continue to accrue until the stipulated penalty is paid in full.
8. This Agreed Order shall apply to and be binding upon the Respondents, their successors, and assigns. The Respondents' signatories to this Agreed Order certify that they are fully authorized to execute this document and legally bind the parties they represent. No change in ownership, corporate, or partnership status of the Respondents shall in any way alter their status or responsibilities under this Agreed Order.
9. In the event that any terms of the Agreed Order are found to be invalid, the remaining terms shall remain in full force and effect and shall be construed and enforced as if the Agreed Order did not contain the invalid terms.
10. This Agreed Order is not and shall not be interpreted to be a Permit, nor shall it in any way relieve the Respondents of their obligation to comply with the requirements of any applicable federal or state law or regulation.
11. The Complainant does not, by its approval of this Agreed Order, warrant or aver in any manner that the Respondents' compliance with any aspect of this Agreed Order will result in compliance with the provisions of the Clean Water Act or state law.
12. The Respondents shall provide a copy of this Agreed Order, if in force, to any subsequent owners or successors before ownership rights are transferred. The Respondents shall ensure that all contractors, firms and other persons performing work under this Agreed Order comply with the terms of this Agreed Order.
13. This Agreed Order shall remain in effect until the Respondents comply with the terms of Order Paragraphs 3-7 and until IDEM issues a Close-Out letter to the Respondents.

**TECHNICAL RECOMMENDATION:**  
Department of Environmental Management

By: Mark W. Stanifer  
Mark W. Stanifer  
Section Chief, Water Section  
Office of Enforcement  
Date: 5-17-2005

**RESPONDENTS:**  
Wells County Board of County Commissioners

By: Randal Plummer  
Randal Plummer, President

Date: September 6, 2005

By: Paul Bonham  
Printed: Paul Bonham  
Title: Commission Vice President

Date: September 6, 2005

By: Kevin Woodward  
Printed: Kevin Woodward  
Title: Commissioner

Date: September 6, 2005

**RESPONDENTS:**  
Wells County Council

By: Peter Cole  
Printed: Peter Cole  
Title: Council President

Date: September 12, 2005

**COUNSEL FOR RESPONDENTS:**

By: Trent Patterson  
Trent Patterson, Attorney at Law

Date: 9/16/05

**COUNSEL FOR COMPLAINANT:**  
Department of Environmental Management

By: Joseph H. Merrick  
Joseph H. Merrick  
Office of Legal Counsel  
Date: 9/24/05

APPROVED AND ADOPTED BY THE INDIANA DEPARTMENT OF ENVIRONMENTAL  
MANAGEMENT THIS 26<sup>th</sup> DAY OF September, 2005.

For the Commissioner:

Matthew T. Klein  
Matthew T. Klein, Assistant Commissioner  
for Compliance & Enforcement



# **APPENDIX 4**

STATE OF INDIANA        )  
                                  )  
COUNTY OF MARION     )  
                                  )        SS:    BEFORE THE INDIANA DEPARTMENT  
                                  )        OF ENVIRONMENTAL MANAGEMENT

IN THE MATTER OF:        )  
THE FORMATION OF THE     )  
WELLS COUNTY REGIONAL    )  
SEWER DISTRICT            )

FINDINGS OF FACT AND RECOMMENDED ORDER  
OF THE HEARING OFFICER

FINDINGS OF FACT

1. On or about October 23, 2006, the Wells County Commissioners and the Wells County Council petitioned the Indiana Department of Environmental Management (IDEM) for an Order to establish a regional sewer district (RSD) in Wells County.
2. Two amendments were submitted to IDEM and received on April 14, 2008 and September 9, 2008.
3. The first amendment, received on April 14, 2008, added two additional trustees to the board and expanded the RSD's territory to all of the unincorporated areas within the county.
4. The second amendment, received on September 9, 2008, added Wells County Commissioner Resolution 2008-2 to the petition.
5. The submitted petition and amendments comply with the provisions of IC 13-26-2.
6. The proposed name of the regional sewer district is the Wells County Regional Sewer District (Wells County RSD).
7. A public hearing was held on October 20, 2008 at the Wells County Community Center, 1240 South 4-H Road, Bluffton, Indiana.
8. Notice of the hearing was given by publication in "The Fort Wayne Journal Gazette" on October 6, 10, 13 and 17, 2008, in the "News Banner" on October 3, 8, 14, and 17, 2008 and in the "Ossian Journal" on October 2, 9, and 16, 2008.
9. The principle office of the Wells County RSD shall be located in the office of the County Auditor, 102 W. Market Street, Suite 205, Bluffton, Indiana, 46714. The Wells County RSD Board of Trustees (Wells County RSD Board), upon formation, may relocate the office after written notice to IDEM.
10. The sanitary sewage needs of those residents now residing within the proposed Wells County RSD territory are currently being met with septic systems, some of which are failing.

11. Most of the residents of the Wells County RSD currently obtain their water for drinking and other purposes from cisterns or individual wells. Contamination from failing septic systems is detrimentally affecting the water quality and public health in the proposed Wells County RSD territory.
12. The current method of collection and disposal of the sanitary sewage of some of the residents in the proposed Wells County RSD territory is insufficient and detrimentally affects the water quality and public health within the proposed district.
13. The Wells County RSD is being formed to provide for the collection, treatment, and disposal of sewage within the district pursuant to IC 13-26-1-1.
14. Upon formation, the Wells County RSD may construct and operate a system that will collect and treat the sanitary sewage of the residents of the Wells County RSD. The Wells County RSD may contract with a district or municipality to meet the sewage treatment needs of the residents of the RSD. The RSD may implement a septic maintenance/management program as needed.
15. The proposed district has no outstanding indebtedness.
16. The Wells County RSD shall be governed by a Board of five (5) voting Trustees to be appointed as follows:
  - A. The Wells County Commissioners shall appoint two (2) Trustees. The term shall expire December 31, 2012.
  - B. The Wells County Council shall appoint two (2) Trustees. The term shall expire December 31, 2011.
  - C. The executive of a municipality contracting with the District shall appoint one (1) Trustee. If more than one municipality is utilized then the District shall define the terms in further detail through its by-laws. This term expires December 31, 2010.
  - D. All succeeding appointments after the expiration of initial terms, notwithstanding Paragraph C above, shall be for a period of four (4) years.
  - E. In the event a vacancy occurs on the Wells County RSD Board, the appointing authority for that trustee shall appoint a new trustee within thirty (30) days of notification from the Board that such a vacancy exists. The new trustee will complete the term of the vacated position.
15. The estimated monthly sewage rate is projected to be approximately \$69.00 to \$146.00, provided the Wells County RSD pursues and receives public funding as needed.



16. The Wells County RSD shall apply for available public funding as needed.
17. The operation and maintenance costs of the Wells County RSD will be derived from monthly user fees.
18. The Wells County RSD appears capable of accomplishing the purposes for which it was formed in an economically feasible manner, provided it maximizes all practicable public funding options and receives anticipated grants.
19. The Wells County RSD territory will include all unincorporated areas of Wells County, Indiana.
20. The Wells County RSD Board shall provide sufficient bond for all officers and Trustees or employees who have any power to disburse funds of the Wells County RSD.
21. On or before March 15, 2010, the Wells County RSD shall file with the Commissioner of IDEM, a detailed plan (the "District Plan") for the construction and operation of Wells County RSD's facilities.
22. Options for the treatment and collection of wastewater have been preliminarily studied and further studies will be prepared after the formation of the district.
23. Establishment of the District will be conducive to the public health, safety, convenience and welfare of the residents of the District because the District plans to collect, dispose and treat sewage that is currently being provided by individual septic tanks or other on-site systems.
24. The plan for financing the cost of operations of the Wells County RSD until it is in receipt of revenue from its operation or proceeds from the sale of bonds may include a forty (40) year loan from United States Department of Agriculture (USDA)-Rural Utility Services or the Indiana State Revolving Fund (SRF) and private contributions.

#### RECOMMENDED ORDER

The Hearing Officer recommends the following:

1. That a Regional Sewer District, to be known as the Wells County Regional Sewer District (Wells County RSD), be organized as an independent political entity of the State of Indiana as a body corporate and politic.
2. The purposes to be accomplished by the formation of the Wells County RSD are to provide for the collection, treatment, and disposal of sewage within the district pursuant to IC 13-26-1-1.
3. The territory of the Wells County RSD is to include all of the unincorporated areas of Wells County, Indiana.

4. The Wells County RSD shall be governed by a Board of five (5) voting Trustees to be appointed as follows:
  - A. The Wells County Commissioners shall appoint two (2) Trustees. The term shall expire December 31, 2012.
  - B. The Wells County Council shall appoint two (2) Trustees. The term shall expire December 31, 2011.
  - C. The executive of a municipality contracting with the District shall appoint one (1) Trustee. If more than one municipality is utilized then the District shall define the terms in further detail through its by-laws. This term expires December 31, 2010.
  - D. All succeeding appointments after the expiration of initial terms, notwithstanding Paragraph C above, shall be for a period of four (4) years.
  - E. In the event a vacancy occurs on the Wells County RSD Board, the appointing authority for that trustee shall appoint a new trustee within thirty (30) days of notification from the Board that such a vacancy exists. The new trustee will complete the term of the vacated position.
5. The Wells County RSD Board shall provide sufficient bond for all officers, trustees or employees who have any power to disburse funds of the Wells County RSD.
6. On or before March 15, 2010, the Wells County RSD shall file with the Commissioner of IDEM, a detailed plan (the "District Plan) for the construction and operation of Wells County RSD's facilities.
7. The Wells County RSD shall apply for all available public funding as needed.
8. Establishment of the District will be conducive to the public health, safety, convenience and welfare of the residents of the District because the District plans to collect, dispose and treat sewage that is currently being managed by individual septic tanks or other on-site systems.
9. Upon formation, the District may construct or contract for treatment, pumping, transmission, and storage and distribution systems for the municipal and rural supply needs.

Dated: June 2, 2009

Hearing Officer Sydney L. Newton

STATE OF INDIANA )  
 ) SS: BEFORE THE INDIANA DEPARTMENT  
 ) OF ENVIRONMENTAL MANAGEMENT  
COUNTY OF MARION )

IN THE MATTER OF: )  
THE FORMATION OF THE )  
WELLS COUNTY REGIONAL )  
SEWER DISTRICT )

ORDER ADOPTING THE FINDINGS OF FACT  
AND RECOMMENDED ORDER OF THE HEARING OFFICER  
FOR THE ORGANIZATION OF THE  
WELLS COUNTY REGIONAL SEWER DISTRICT

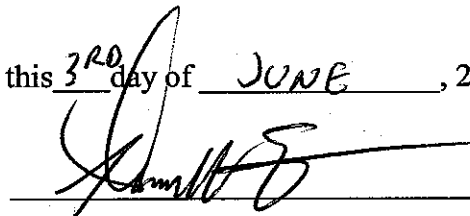
Notice is hereby given that the Hearing Officer has filed with the Commissioner of the Indiana Department of Environmental Management (Commissioner) the "FINDINGS OF FACT AND RECOMMENDED ORDER" relative to the petition requesting organization of the Wells County Regional Sewer District (RSD). Said FINDINGS and RECOMMENDED ORDER are attached to this ORDER, and consist of four (4) pages.

And the Commissioner, having reviewed the attached "FINDINGS OF FACT AND RECOMMENDED ORDER" of the Hearing Officer, now determines that the organization of the proposed RSD complies with the conditions of Indiana Code 13-26 et seq., and that the proposed RSD appears capable of accomplishing its purpose in an economically feasible manner.

IT IS NOW ORDERED BY THE COMMISSIONER that the Wells County Regional Sewer District be organized as an independent municipal corporation pursuant to the terms and conditions set forth in the attached "FINDINGS OF FACT AND RECOMMENDED ORDER" which are adopted and approved, and deemed incorporated in this ORDER.

Pursuant to IC 13-26-2-11, IC 4-21.5-3-2 and IC 4-21.5-5-5, this ORDER becomes effective thirty-three (33) days after service through the United States mail, unless a petition for judicial review is filed before or on the thirty-third (33<sup>rd</sup>) day. Standing and substantive requirements of the verified petition for review are specified in IC 4-21.5-5-3 and IC 4-21.5-5-7, respectively. Pursuant to IC 4-21.5-5-9, a person seeking judicial review of this ORDER may, by filing a verified petition, request an order of the court staying this ORDER, pending a decision by the court.

All of which is ORDERED at Indianapolis, Indiana this 3<sup>rd</sup> day of JUNE, 2009.



Thomas W. Easterly, Commissioner  
Indiana Department of  
Environmental Management

# **APPENDIX 5**

# Wells County Health Department

223 W. Washington, Suites 200-209  
Bluffton, Indiana 46714-1955  
Phone: (260) 824-6489 • Fax: (260) 824-8803

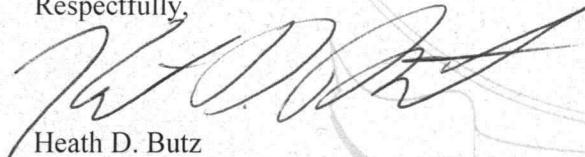
Date: February 7, 2011

Re: Regional Sewer District

Water samples were taken from the same ten locations in the McKinney Watershed on April 6, 1999 and October 28, 1999. Samples were taken again on November 13, 2008 at the request of the County Commissions to verify the results of earlier sampling. All sampling results showed significantly elevated counts of E. Coli bacteria, an indication of improperly treated sewage from local septic systems. The Wells County Health Department has observed and documented discharges of sewage into the McKinney and Paxson Ditches, county drainage ditches, which then flow to the Wabash River.

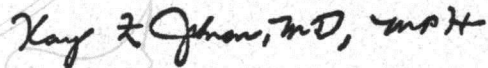
Inadequate septic systems and poor soil conditions are the main issues of concern in the McKinney/Paxson Watershed Area. The majority of soils in Wells County according to the "Soil Survey of Wells County, Indiana" are very poorly drained and considered severe or unsuitable for septic systems. The McKinney/Paxson Watershed Area is located in the Wabash Recessional Moraine which has some of the most restrictive soils in the county. On-site sewage systems have failed prematurely in these moraine soils. The Wells County Health Department supports the work of the Regional Sewer District and encourages the installation of sanitary sewer within this district in order to address the issues of concern.

Respectfully,



Heath D. Butz  
Environmental Health Specialist

Respectfully,



Kay L. Johnson, M.D.  
Health Officer