Addendum 1 to the 2005 Eagle Creek Watershed Management Plan

Traders Point Farm HUC 05120201120080

Introduction

The purpose of this addendum is to include this <u>specific site</u> as having a "High" level of degradation within a "Low" level 14-Digit Sub-watershed (Eagle Creek-Long Branch/Irishmans Run), reference Table VI-20 of the 2005 Eagle Creek Watershed Management Plan. Such inclusion will allow the Eagle Creek Watershed Alliance to use existing cost-share funds as specified in the Eagle Creek Watershed Management Plan and approved by the IDEM Program Manager.

This site came to the attention of the Eagle Creek Watershed Alliance through a contact made by the Alliance's Ag Liaison, Harold Thompson. The property owners made mention that they had received letters of violation from the Marion County Health Department. This was brought up to the Alliance's Technical Committee in the fall of 2010. Concerns were discussed that while this site was in a "non-priority" sub-watershed, it was still a source of pollution to residents on the south side of Moore Road as well as directly impacting Eagle Creek Reservoir, a recreational and drinking water resource.

It was the decision of the Alliance to write an addendum to the Management Plan to include this site as eligible for grant funding to reduce the runoff from the dairy. In the interim Mr. Thompson will continue to work with the owner on other management practices to reduce nutrient loading.

Additionally, the dairy operation on the Traders Point Farm located at 8060 Moore Road, Indianapolis IN, was notified by the Marion County Health Department of elevated levels of E. coli bacteria, orthoophosphate and ammonium. Sample results for the above were several times over the allowable limits as specified in 327 IAC 2-1-6, State of Indiana Minimum Surface Water Quality Standards.

A review of the dairy operation by NRCS engineers indicated that the site is well suited for the installation of best management practices to reduce bacterial and nutrient runoffs. The dairy herd is 90 to 110 animals with no plans by the owner to increase the herd size to the point that it would become a regulated entity, such as a CFO.

By approving this addendum to the 2005 Eagle Creek Watershed Management Plan the Eagle Creek Watershed Alliance will be able to implement best management practices on this site to reduce pollution runoff and improve the water quality entering Eagle Creek Reservoir.

Location

The Traders Point Farm (Elder Dairy) was brought to the Eagle Creek Watershed Alliance's (the Alliance) attention by the Marion County Board of Health through samples taken near the dairy farm. Runoff from the farm is approximately 0.8 of a mile from the north end of Eagle Creek Reservoir. Meetings with the dairy's manager indicated interest in upgrading the waste management facilities. On review of the 2005 Eagle Creek Watershed Management Plan (the Management Plan) it was noted that the Traders Point Farm was in the Long Branch/Irishman Run Sub-watershed (HUC 05120201120080) which is denoted as "Low" priority in the Management Plan.

The Eagle Creek Watershed and sub-watersheds are covered in detail in the 2005 Management Plan. The Long Branch/Irishman Run sub-watershed is located at the southern base of the Eagle Creek watershed and includes the north, or upper, end of Eagle Creek reservoir. The Town of Zionsville is located in the sub-watershed as well as outfalls from the Zionsville WWTP and Clay Waste WWTP. Figure 1 is a map of the sub-watershed, with the Traders Point Dairy immediately above the 05120201120080 legend.

Figure 2 is a map of the Traders Point Farm boundaries with Eagle Creek in the lower right-hand corner. The farm is comprised of agriculturally highly erodible land slopping southwest. The small ditch/stream from the farm passes through a residential area prior to entering Eagle Creek.

Impairments

The high nutrient levels (Marion County Board of Health data, Appendix A), contribute to excessive Blue-Green algae blooms which have restricted recreational activity on Eagle Creek Reservoir and increased the cost of drinking water treatment for the Indianapolis Water Company. (http://www.in.gov/idem/algae/)

High bacterial levels of E. coli (Board of Health data, Appendix A) were found in ditches and streams passing through residential areas between Traders Point Farm and Eagle Creek.

Both of the above present potential public health risks. Reference Figure 8 (a) and 8 (b) for IDEM Water Quality Targets.

Causes/Sources

The principle source of the impairments noted above are from this specific site, the dairy operation of Traders Point Farm. The farm/dairy comprises the drainage way where MCHD sampling occurs (see Figure 4). Storm runoff is not separated properly from animal waste and additional waste storage should be added. Cattle are also allowed in the drainage way on the farm property on the northwest side of Moore Road. (See Figure 4) The drain continues through a culvert under Moore Road to Eagle Creek. (See Figure 5)

Primary liquid waste storage from dairy cattle is stored in containment area north of main building shown in Figure 4.

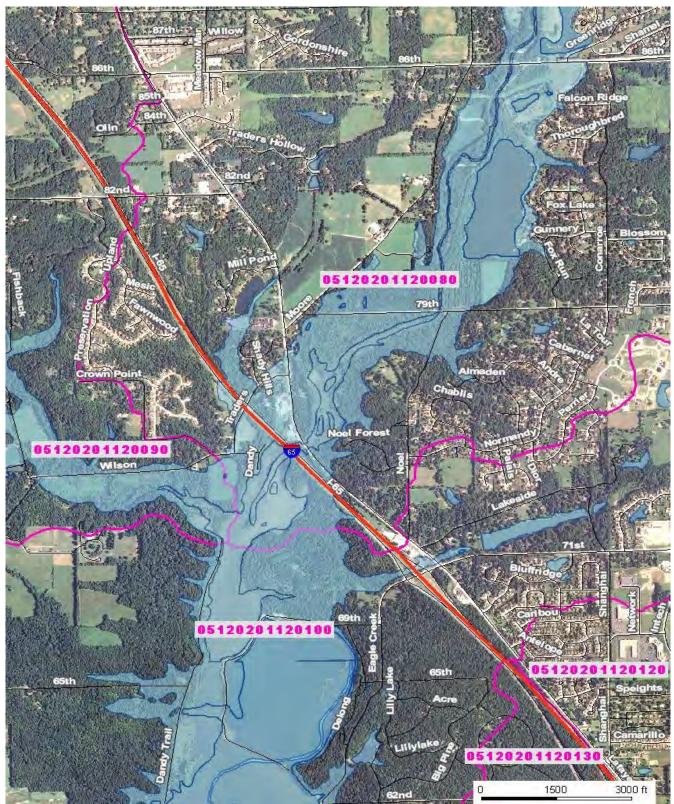


Figure 1 – General Location of Farm in Watershed



Figure 2 – Detailed Property Map of Elder Dairy (red border)

Goals

Working with the dairy manager, farm owner, and NRCS engineers, best management practices can be implemented to reduce nutrient and bacterial loads. A nutrient management plan should be completed for Traders Point Farm. Increasing liquid waste storage volume and separation of bacterial/nutrient runoff from storm water runoff should also be included in these practices. As the vast majority of pollutant sources are encompassed by this site, noticeable reductions should be apparent shortly after the installation of the proposed practices. It is hoped that construction can commence in the fall of 2011. This project would contribute greatly to achieving Goal 1 in Section XI of the 2005 Eagle Creek Watershed Management Plan.

Methods

Management practices that are considered for the site are:

- Comprehensive Nutrient Management Plan
- Improved Waste Storage Facility
 - 315,000 cubic feet additional storage
 - 2,000 gallon settling basin
- Improved Storm Water Management
 - 21,000 square feet of grassed waterway
 - 50 acres of cover crops
- Cattle Fencing and Stream Crossings
 - 950 feet of fencing

Additionally other crop residue and tillage practices will be added as needed. Reference Figure 6 for Conservation Plan areas and Figure 7 for Fencing and Stream Crossings.

Load Reductions

Accepted standard models indicate the following potential reductions using the management methods detailed above:

- 216 tons/year of soil and sediment
- 494 pounds/year of phosphorus
- 1917 pounds/year of nitrogen

While there are no standard models for E.coli reduction by specific agricultural BMP, it is anticipated that the installation of the above practices will eliminate this facility from being a net contributor to E.coli loads entering Eagle Creek Reservoir. Continued monitoring by the Marion County Health Department will be used to substantiate the E.coli load reductions. MCHD has been monitoring this site quarterly.

Implementation

As this is a site specific plan, the above BMPs, listed in Methods, will be done in a normal construction sequence, following the creation of the Comprehensive Nutrient Management Plan.

There are no additional funds required by this addendum to the Management Plan or existing grant funding.

Monitoring

Monitoring of this site will be done as described in the Management Plan, Section XI, as well as indicated in Adam Rickert's (MCHD) letter to the Elders (owner) dated January 27, 2010, see Figure 3. Quality Assurance Project Plan's exist in the Eagle Creek Watershed Management Plan and at the Marion County Board of Health.

This is a somewhat unique case in that site specific data exist so that before and after comparisons can easily be made to evaluate the actual results of the practices.

January 27, 2010

William and Nancy Elder 320 North Meridian Street Indianapolis IN 46204

Dear Mr. and Ms. Elder,

Per the Marion County Assessors office, you currently own the following parcels:

- Parcel 6000941, addresses listed include 8060, 8084, and 8102 Moore Road
- Parcel 6023959, addresses listed include 8222 and 8231 Moore Road

Our department samples and monitors surface (and ground) waters within Marion County, including several tributaries connected to Eagle Creek. Several drainage channels and small streams from the above parcels flow in an Easterly direction toward Eagle Creek. Over the last several months, our department has been sampling (see enclosed results) these streams/drainage channels, specifically for bacteriological (E. coli) and chemical parameters.

The sample results indicate a continuously elevated level of E. coli bacteria, Ortho Phosphate, and Ammonium several times the allowable limit as specified in 327 IAC 2-1-6, State of Indiana Minimum Surface Water Quality Standards. While the surface water standards are an important benchmark to gauge the quality of the water and to track improvements or deficiencies, it is not always feasible or realistic to achieve compliance within a short amount of time.

In an effort to initiate and facilitate continued improvements to the water quality within the Eagle Creek watershed, I have enclosed information on best management practices intended for livestock farms. The Eagle Creek Watershed Alliance (ECWA) is an available resource to aid in the implementation of best management practices. Cost share grants to help defray the cost of implementing a best management practice might be available through the ECWA as well; please contact Dr. Lenore Tedesco (317-274-3693) for further information.

If you and other vested parties are agreeable with moving forward with implementing one or more of the best management practices for these properties, I would like to continue monitoring this area to gauge the expected water quality benefits over time. I look forward to hearing from you, if you have any questions, please do not hesitate to call me directly at (317) 221-2298.

Sincerely,

Adam Rickert Manager, Water Quality and Hazardous Materials Management Bureau of Environmental Health

Figure 3 - Adam Rickert's Letter to Owners



Figure 4 Drainage Way from Dairy Operations MCHD Sample Site (between fence and roadway)

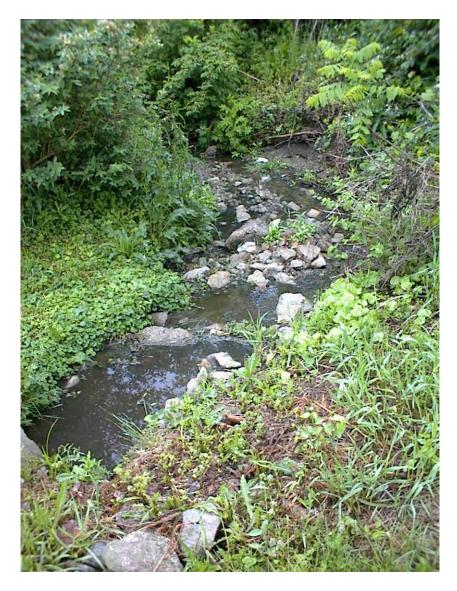


Figure 5 Culvert outlet under Moore Road Drainage from Elder Farm (Figure 4) flowing to Eagle Creek



Figure 6 Elder Dairy Conservation Plan

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Figure 7 Elder Dairy – Cattle Exclusion Fencing

| ID | EM Water Quali | ity Targets |
|---|--|--|
| Parameter | Target | Reference/Other Information |
| Total Ammonia (NH3) | Range between 0.0 and 0.21 mg/L depending upon temperature and pH | Indiana Administrative Code (327 IAC 2-1-6 |
| Atropine | Max: 3.0 ppb | U.S. EPA Drinking Water Standard |
| comrendation * | Min: 4.0 mg/L Max: 12.0 mg/L | Indiana Administrative Code (327 IAC 2-1-6 |
| Dissolved Oxygen (DO) | Min: 6.0 mg/L in coldwater fishery streams | Indiana Administrative Code (327 IAC 2-1.5 8) |
| eunis (Dodds, W.K. et al., 1459, and in 1 <u>7A-872-8-9</u>) | Min: 7.0 mg/L in spawning areas of coldwater fishery streams | Indiana Administrative Code (327 IAC 2-1.5 8) |
| soomnended criteria for W m (WWH) headwater Sires | Max: 235 CFU/ 100mL in a single sample | Indiana Administrative Code (327 IAC 2-1.5 8) |
| E. coli | Max: <u>Geometric Mean</u> of 125 CFU/ 100mL from 5 equally spaced samples over a 30-day period | Indiana Administrative Code (327 IAC 2-1.5 8) |
| Nitrate | Max: 10 mg/L in waters designated as a drinking water source | Indiana Administrative Code (327 IAC 2-1-6 |
| Nitrite | Max: 1 mg/L in waters designated as a drinking water source | Indiana Administrative Code (327 IAC 2-1-6 |
| Nitrate-N + Nitrate-N | Max: 10 mg/L in waters designated as a drinking water source | Indiana Administrative Code (327 IAC 2-1-0 |
| Temperature | Dependant on time of year and whether stream is designated as a cold water fisheries | Indiana Administrative Code (327 IAC 2-1-6 |
| MDL criteria for protection | Max: 0.633 mg/L | U.S. EPA recommendation * |
| | Max: 1.0 mg/L | Ohio EPA recommended criteria for Warm Water Habitat (WWH) headwater streams in Ohio EPA Technical Bulletin MAS//1999-1- [PDF] |
| Nitrate-nitrogen (NO3) | 1.5 mg/L | Dividing line between mesotrophic and eutrophic streams (Dodds, W.K. et al., 1998, Table 1, pg. 1459, and in EPA-822-B-00-002 [PDF], p 27.) |
| | $m m \sigma / r$ | IDEM draft TMDL target based on drinking water targets |

Figure 8 (a)

| Parameter | Target | Reference/Other Information | | |
|---|-----------------------|---|--|--|
| Ortho-Phosphate also known as Soluble reactive phosphorus (SRP) | Max: 0.005 mg/L | Wawasee Area Conservancy Foundation recommendation for lake systems, NESWP344 | | |
| Suspended Sediment | Max: 25.0 mg/L | U.S. EPA recommendation for excellent fisheries | | |
| Concentration (SSC) | Range: 25.0-80.0 mg/L | U.S. EPA recommendation for good to moderate fisheries | | |
| Total Kjeldahl Nitrogen (TKN) | Max: 0.591 mg/L | U.S. EPA recommendation * | | |
| Iministrative Code (327 LAC 2-1 | Max: 0.076 mg/L | U.S. EPA recommendation | | |
| imiqistrative Code (3277AC 2-1 | 0.07 mg/L | Dividing line between mesotrophic and eutrophic streams (Dodds, W.K. et al., 1998, Table 1, pg. 1459, and in <u>EPA-822-B-00-002</u> [PDF], p 27.) | | |
| Total Phosphorus | Max: 0.08 mg/L | Ohio EPA recommended criteria for Warn Water Habitat (WWH) headwater streams Ohio EPA Technical Bulletin MAS//1999. [PDF] | | |
| a star in the second second reasons | Max: 0.3 mg/L | IDEM draft TMDL target | | |
| iminicumive Code (327 TAC 2-1- | Max: 80.0 mg/L | Wawasee Area Conservancy Foundation recommendation to protect aquatic life in lak systems | | |
| | Max: 30.0 mg/L | IDEM draft TMDL target from NPDES rule for lake dischargers in 327 IAC 5-10-4 re: monthly average for winter limits for small sanitary treatment plants | | |
| Total Suspended Solids (TSS) | Range: 25.0-80.0 mg/L | Concentrations within this range reduce fish concentrations (Waters, T.F.,, 1995). Sediment in streams: sources, biological effects and control. American Fisheries Society, Bethesda, MD. 251 p. | | |
| | Max: 40.0 mg/L | New Jersey criteria for warm water streams | | |
| commendation.* | Max: 46.0 mg/L | Minnesota TMDL criteria for protection of fish/macroinvertebrate health | | |
| Turbidity | Max: 25.0 NTU | Minnesota TMDL criteria for protection of fish/macroinvertebrate health | | |
| | Max: 10.4 NTU | U.S. EPA recommendation | | |

* U.S. EPA recommended criteria are different for parts of southwest Indiana within Ecoregion IX. See Ecoregional Nutrient Criteria Documents for Rivers & Streams for more information.

Reference: http://www.in.gov/idem/6242.htm

Figure 8 (b)

Appendix A

Marion County Health Department Sample Reports from Moore Road Site



Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample Information | | | | | | | |
|--------------------------------------|--|----------------|--------|----------------|--------------|---------|-------------|
| Sample ID: | FH082409-2 | | | Lab ID: | F0948505 | 501 | |
| Sample Location: | 8025 MOORE RD, INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | Other | | Sample | Description: | SW 8025 MOOI | RE RD | |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM 3838 North Rural Str Indianapolis, IN 462 | eet, 5th Floor | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | C.H.M.M. | | Date Received: | August 24 | 4, 2009 | 10:50 |
| Date Collected: | August 24, 2009 10: | 10 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH082409-2 | | | Lab ID: | F0948505 | 501 | |
| Matrix: | Surface Water | | | Date Completed | : August 24 | 4, 2009 | 11:40 |
| Received on Ice, 2-8 degr | rees Celsius | | | Date Reported: | August 25 | 5, 2009 | 11:13 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | Ву | Qual RegLmt |
| MICROBIOLOGY MPN Escherichia coli | 8664 MPN/100mL | 10 | | 1 | 08/24/2009 | IJ | 235 |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH082409-2 | | | Lab ID: | F0948505 | 501 | |
|------------------------------|-------------------|--------------------|----------|-----------------|------------|-----------|------------|
| Sample Location: | | | | | | | |
| | 8025 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| | | 40270 | | | | | |
| Reason for Sampling: | Complaint | | Sample D | Description: | | | |
| Final Results | | | | | | | |
| Sample ID: | FH082409-2 | | | Lab ID: | F0948505 | 501 | |
| Matrix: | Surface Water | | | Date Completed: | Septembe | r 2, 2009 | 16:44 |
| Received on Ice, 2-8 degrees | Celsius | | | Date Reported: | Septembe | r 9, 2009 | 8:23 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| 1,1,2-Trichloroethane | BDL (<0.29 ug/L) | 0.50 | 0.29 | 1 | 09/02/2009 | ΤZ | |
| Trichloroethene | BDL (<0.29 ug/L) | 0.50 | 0.29 | 1 | 09/02/2009 | ΤZ | |
| Vinyl chloride | BDL (<0.16 ug/L) | 0.50 | 0.16 | 1 | 09/02/2009 | TZ | |
| o-Xylene | BDL (<0.21 ug/L) | 0.50 | 0.21 | 1 | 09/02/2009 | TZ | |
| n-Xylene | BDL (<0.23 ug/L) | 0.50 | 0.23 | 1 | 09/02/2009 | TZ | |
| Bromodichloromethane | BDL (<0.26 ug/L) | 0.50 | 0.26 | 1 | 09/02/2009 | TZ | |
| Bromoform | BDL (<0.47 ug/L) | 0.50 | 0.47 | 1 | 09/02/2009 | TZ | |
| Dibromochloromethane | BDL (<0.34 ug/L) | 0.50 | 0.34 | 1 | 09/02/2009 | TZ | |
| Chloroform | BDL (<0.16 ug/L) | 0.50 | 0.16 | 1 | 09/02/2009 | TZ | |
| Comment | Blank was BDL | | | 1 | 09/02/2009 | TZ | |
| METALS | | | | | | | |
| Analysis Desc: EPA 200.8 | 3 | Analytical Method: | EPA 20 | 0.8 | | | |
| Registration Number: EPA/ISD | H C-49-04 | | | | | | |
| Arsenic | 3.0 ug/L | 1.0 | 0.29 | 1 | 08/26/2009 | ΤZ | |
| Barium | 90.8 ug/L | 4.0 | 0.47 | 1 | 08/26/2009 | ΤZ | |
| Cadmium | BDL (<0.17 ug/L) | 0.50 | 0.17 | 1 | 08/26/2009 | ΤZ | |
| Chromium | BDL (<0.27 ug/L) | 3.0 | 0.27 | 1 | 08/26/2009 | ΤZ | |
| Mercury | BDL (<0.13 ug/L) | 0.20 | 0.13 | 1 | 08/26/2009 | ΤZ | |
| Lead | BDL (<0.10 ug/L) | 2.0 | 0.10 | 1 | 08/26/2009 | ΤZ | |
| Copper | BDL (<0.26 ug/L) | 20.0 | 0.26 | 1 | 08/26/2009 | ΤZ | |
| Nickel | BDL (<0.15 ug/L) | 1.0 | 0.15 | 1 | 08/26/2009 | ΤZ | |
| Zinc | BDL (<1.4 ug/L) | 10.0 | 1.4 | 1 | 08/26/2009 | ΤZ | |
| Calcium | 93700 ug/L | 1000 | 13 | 1 | 08/26/2009 | ΤZ | |
| Magnesium | 34900 ug/L | 1000 | 1.4 | 1 | 08/26/2009 | ΤZ | |
| Hardness ANIONS | 378 mg/L CaCO3 | 7.0 | | 1 | 08/26/2009 | ΤZ | |
| Analysis Desc: EPA 300.0 |) | Analytical Method: | EPA 30 | 0.0 | | | |
| Registration Number: EPA/ISD | H C-49-04 | | | | | | |
| Chloride | 63.4 mg/L | 2.0 | 0.065 | 1 | 08/25/2009 | DW | |
| Nitrite | BDL (<0.010 mg/L) | 0.20 | 0.010 | 1 | 08/25/2009 | DW | |
| Nitrate | BDL (<0.025 mg/L) | 0.20 | 0.025 | 1 | 08/25/2009 | DW | |
| Ortho-Phosphate | 2.1 mg/L | 0.20 | 0.063 | 1 | 08/25/2009 | DW | |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample Information | | | | | | | |
|---------------------------|---------------|--------------|--------|-----------------|------------|------------|-------------|
| Sample ID: | FH082409-2 | | | Lab ID: | F0948505 | 501 | |
| Sample Location: | | | | | | | |
| | 8025 MOORE RD | , | | | | | |
| | INDIANAPOLIS, | IN 46278 | | | | | |
| Reason for Sampling: | Complaint | | Sample | Description: | | | |
| Final Results | | | | | | | |
| Sample ID: | FH082409-2 | | | Lab ID: | F0948505 | 501 | |
| Matrix: | Surface Water | | | Date Completed: | August 25 | 5,2009 1 | 6:26 |
| Received on Ice, 2-8 degr | rees Celsius | | | Date Reported: | Septembe | er 9, 2009 | 8:23 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | Ву | Qual RegLmt |
| Sulfate CATIONS | 26.7 mg/L | 2.0 | 0.13 | 1 | 08/25/2009 | DW | |
| Ammonium | 10.8 mg/L | 0.40 | 0.076 | 2 | 08/28/2009 | DW | |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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Marion County Health Department 3838 North Rural Street Indianapolis, IN 46205 Phone: (317) 221-4670

Fax: (317) 221-4683

Sample Information

| Sample ID: | FH092409-1 | | | Lab ID: | E0955241 | 01 | |
|--|--|---|---|--|--|--|------------|
| Sample Location: | | | | | | | |
| | 8025 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: d | litch | | |
| Collection Information | | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM | M | | | | | |
| | 3838 North Rural Stre | et 5th Floor | | | | | |
| | Indianapolis, IN 4620 | | | | | | |
| | - · | | | | G (1 | 24.200 | 10.22 |
| Collected By: | Fikru Hailu, M.P.H., O | С.Н.М.М. | | Date Received: | Septembe | r 24, 200 | 09 10:33 |
| Date Collected: | September 24, 2009 | 10:30 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH092409-1 | | | Lab ID: | E0955241 | 01 | |
| Matrix: | Surface Water | | | Date Completed: | October 1 | 4, 2009 | 11:54 |
| Received on Ice, 2-8 degre | es Celsius | | | | October 1 | | |
| Received on ice, 2-8 degre | tes Celsius | | | Date Reported: | October 1 | 3, 2009 | 10.00 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| METALS | | | | | | | |
| | | | | | | | |
| Analysis Desc: EPA 200 | | Analytical Method: | EPA 2 | 200.8 | | | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS | SDH C-49-04 | - | | 200.8 | 10/14/2009 | DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic | | Analytical Method: 1.0 4.0 | EPA 2 0.29 0.47 | | 10/14/2009 10/14/2009 | DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic | SDH C-49-04 4.2 ug/L | 1.0 | 0.29 | 1 | | DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium | SDH C-49-04 4.2 ug/L 242 ug/L | 1.0 4.0 | 0.29 0.47 | 1 1 | 10/14/2009 | DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) | 1.0 4.0 0.50 | 0.29 0.47 0.17 | 1 1 1 | 10/14/2009 10/14/2009 | DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) | 1.0 4.0 0.50 3.0 | 0.29 0.47 0.17 0.27 0.13 | 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L | 1.0 4.0 0.50 3.0 0.20 | 0.29 0.47 0.17 0.27 | 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 | 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 | 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 | 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 | 1 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | 1 1 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | 1 1 1 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L 422 mg/L CaCO3 | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 | 1 1 1 1 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L 422 mg/L CaCO3 0.0 | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 7.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 | 1 1 1 1 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 300 | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L 422 mg/L CaCO3 0.0 | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 7.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 | 1 1 1 1 1 1 1 1 1 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 300 Registration Number: EPA/IS Chloride | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L 422 mg/L CaCO3 0.0 SDH C-49-04 | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 7.0 Analytical Method: | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 EPA 3 | 1 1 1 1 1 1 1 1 1 300.0 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 300 Registration Number: EPA/IS | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L 422 mg/L CaCO3 0.0 SDH C-49-04 113 mg/L | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 7.0 Analytical Method: 2.0 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 EPA 3 0.065 | 1 1 1 1 1 1 1 1 1 300.0 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW DW | |
| Analysis Desc: EPA 200 Registration Number: EPA/IS Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 300 Registration Number: EPA/IS Chloride Nitrite | SDH C-49-04 4.2 ug/L 242 ug/L BDL (<0.17 ug/L) 3.2 ug/L BDL (<0.13 ug/L) 13.5 ug/L 21.5 ug/L 6.0 ug/L 97.1 ug/L 108000 ug/L 36900 ug/L 36900 ug/L 422 mg/L CaCO3 0.0 SDH C-49-04 113 mg/L BDL (<0.010 mg/L) | 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 7.0 Analytical Method: 2.0 0.20 | 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 EPA 3 0.065 0.010 | 1 1 1 1 1 1 1 1 1 300.0 1 1 | 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 10/14/2009 | DW DW DW DW DW DW DW DW DW DW DW | |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample Information | | | | | | | |
|---------------------------|-----------------------------------|--------------|--------|----------------|-------------|---------|-------------|
| Sample ID: | FH092409-1 | | | Lab ID: | E095524 | 101 | |
| Sample Location: | 8025 MOORE RD, INDIANAPOLIS, 1 | | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: | ditch | | |
| Final Results | | | | | | | |
| Sample ID: | FH092409-1 | | | Lab ID: | E095524 | 101 | |
| Matrix: | Surface Water | | | Date Completed | : October 1 | 5, 2009 | 7:16 |
| Received on Ice, 2-8 degr | rees Celsius | | | Date Reported: | October 1 | 5, 2009 | 10:00 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLmt |
| CATIONS Ammonium | 52.3 mg/L | 2.0 | 0.38 | 10 | 10/15/2009 | ND | |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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Addendum-2005 Eagle Creek Watershed Management Plan

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Fax: (317) 221-4683

Sample Information E096335401 FI4110309-2 Lab ID: Sample ID: Sample Location: 8025 MOORE RD. INDIANAPOLIS, IN 46278 Survey Sample Description: ditch Reason for Sampling: **Final Results** E096335401 FH110309-2 Lab ID: Sample ID: November 7, 2009 3:04 Surface Water Date Completed: Matrix: Date Reported: November 12, 2009 7:30 Received on Ice. 2-8 degrees Celsius Qual Regi.mt Result Report Limit MDL. DF Prepared Analyzed By Test 11/07/2009 1,1,2-Trichloroethane BDL (<0.29 ug/L) 0.50 0.29 1 DW 0.50 0.29 11/07/2009 DW BDL (<0.29 ug/L) 1 Trichloroethene 11/07/2009 BDL (<0.16 ug/L) 0.50 0.16 1 DW Vinyl chloride 11/07/2009 0.21 DW o-Xylene BDL (<0.21 ug/L) 0.50 1 BDL (<0.23 ug/L) 11/07/2009 0.50 0.23 1 DW m-Xylene BDL (<0.26 ug/L) 0.50 0.26 11/07/2009 DW 1 Bromodichloromethane 11/07/2009 Bromoform BDL (<0.47 ug/L) 0.50 0.47 1 DW 11/07/2009 DW 0.50 0.34 1 Dibromochloromethane BDL (<0.34 ug/L) 11/07/2009 BDL (<0.16 ug/L) 0.50 0.16 1 DW Chloroform Comment 1 11/07/2009 DW No duplicate sample run. METALS Analytical Method: EPA 200.8 Analysis Desc: EPA 200.8 Registration Number: EPA/ISDH C-49-04 11/06/2009 ND 3.7 ug/L 1.0 0.29 Arsenic 0.47 11/06/2009 ND Barium 121 ug/L 4.0 1 11/06/2009 BDL (<0.17 ug/L) 0.50 0,17 ND 1 Cadmium Chromium BDL (<0.27 ug/L) 3.0 0.27 11/06/2009 ND 11/06/2009 BDL (<0.13 ug/L) 0.20 ND Mercury 0.13 1 BDL (<0.10 ug/L) 0.10 11/06/2009 ND 2.0 Lead 1 BDL (<0.26 ug/L) 20.0 0.26 11/06/2009 ND Copper 1 Nickel 2.5 ug/L 1.0 0.15 1 11/06/2009 ND 23.4 ug/L 10.0 1.4 11/06/2009 ND Zinc A. 1000 13 11/06/2009 117000 ug/L 1 ND Calcium Magnesium 39400 ug/L 1000 1.4 11/06/2009 ND 1 11/06/2009 ND Hardness 454 mg/L CaCO3 7.0 CATIONS 5.5 mg/L 0.20 0.038 11/10/2009 TZ Ammonium e 20 ANIONS Analytical Method: EPA 300.0 Analysis Desc: EPA 300.0 Registration Number: EPA/ISDH C-49-04 Chloride 63.9 mg/L 2.0 0.065 11/04/2009 ND

Page 2 of 3

| and the second se | | | | | | | a browned. |
|---|---|-------------------------------------|---------------------------------|----------------------|--|--|---------------------|
| | | | | | 3838 North | nty Health D Rural Stree s. IN 46205 | |
| MARION COUNTY | | | | | Phone: (31 Fax: (317) | 7) 221-4670 221-4583 | |
| Sample Information | | | - | | | | |
| Sample ID: | FH110309-2 | | | Lub ID: | E0963354 | 101 | |
| Sample Location: | 8025 MOORE RD. INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: di | itch | | |
| Final Results | - | | | - | | | |
| Sample ID: | FH110309-2 | | - | Lab ID: | E0963354 | 101 | |
| Matrix: | Surface Water | | | Date Completed: | Novembe | r 4. 2009 | 19:44 |
| Received on Ice, 2-8 deg | rees Celsius | | | Date Reported: | Novembe | r 12, 2009 | 7:30 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLmt |
| Nitrite Nitrate Ortho-Phosphate Sulfate | BDL (<0.010 mg/L) 1.0 mg/L (1.6 mg/L 63.0 mg/L | 0.20 0.20 0.20 2.0 | 0.010 0.025 0.063 0.13 | 1 1 1 1 | 11/04/2009 11/04/2009 11/04/2009 11/04/2009 | ND ND ND | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | n County Health Department P | | | H# M-49-02, 3838 Nor | th Rural Street, I | ndianapolis | , IN |
| | CERT | IFICATE OF AN | ALYSIS | | th Rural Street, I | ndianapolis | , IN |
| Testing performed at Marior 46205 | CERT | IFICATE OF AN shall not be repro | ALYSIS | ept in full, | th Rural Street, I | ndianapolis | , IN Page 3 of 3 |

| MARION COUNTY ACTOR STATUTE | | | Marion County Health Department 3838 North Rural Street Indianapolis, IN 46205 Phone: (317) 221-4670 Fax: (217) 221-4683 |
|--------------------------------------|---|---------------------|--|
| Sample Information | | | 12096335401 |
| Sample ID: | FH110309-2 | Lab ID; | 1090303401 |
| Sample Location: | 8025 MOORE RD, INDIANAPOLIS, IN 46278 | | |
| Reason for Sampling: | Survey | Sample Description: | Surface water |
| Collection Information | 1 | | |
| Collection: | MCHD-WQ/IAQ/HMM 3838 North Rural Street. 5th Floor Indianapolis, IN 46205 | | |
| Collected By: | Fikru Hailu, M.P.H., C.H.M.M. | Date Received: | November 3, 2009 11:48 |
| Date Collected: | November 3, 2009 10:45 | | |
| Final Results | | | |
| Sample ID: | FH110309-2 | Lab 1D: | E096335401 |
| Matrix: | Surface Water | Date Completed | November 3, 2009 0:00 |
| Received on Ice. 2-8 deg | rees Celsius | Date Reported: | November 6, 2009 13:45 |
| Test | Result Report Limit | MDL DF Prepared | Analyzed By Qual Re |
| MICROBIOLOGY MPN Escherichia coli | 24192 MPN/100mL 10 | 1 | 11/03/2009 AC |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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Marion County Health Department 3838 North Rural Street

Indianapolis, IN 46205

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| | | | | | | and the second |
|------------------------------------|--|---|--|--|---|--|
| FH113009-1 | | | Lab ID: | F0967638 | 01 | |
| 8025 MOORE RD, INDIANAPOLIS, IN | 46278 | | | | | |
| Survey | | Sample | Description: d | itch | | |
| | | | | | | |
| FH113009-1 | | | Lab ID: | F0967638 | 601 | |
| Surface Water | | | Date Completed: | December | 2, 2009 | 17:05 |
| ees Celsius | | | Date Reported: | December | 11, 200 | 9 11:12 |
| Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLmt |
| 13.3 mg/L | 0.20 | 0.063 | 1 | 12/02/2009 | ΤZ | |
| | 8025 MOORE RD, INDIANAPOLIS, IN Survey FH113009-1 Surface Water ces Celsius Result | 8025 MOORE RD, INDIANAPOLIS, IN 46278 Survey FH113009-1 Surface Water ces Celsius Result Report Limit | 8025 MOORE RD, INDIANAPOLIS, IN 46278 Survey Sample FH113009-1 Surface Water ces Celsius Result Report Limit MDL | 8025 MOORE RD, INDIANAPOLIS, IN 46278 Survey Sample Description: d FH113009-1 Lab ID: Surface Water Date Completed: cess Celsius Date Reported: Result Report Limit MDL DF Prepared 13.3 mg/L 0.20 0.063 1 | 8025 MOORE RD, INDIANAPOLIS, IN 46278 Survey Sample Description: ditch FH113009-1 Lab ID: F0967638 Surface Water Date Completed: December cess Celsius Date Reported: December Result Report Limit MDL DF Prepared Analyzed 13.3 mg/L 0.20 0.063 1 12/02/2009 | 8025 MOORE RD, INDIANAPOLIS, IN 46278 Survey Sample Description: ditch FH113009-1 Lab ID: F096763801 Surface Water Date Completed: December 2, 2009 cess Celsius Date Reported: December 11, 200 Result Report Limit MDL DF Prepared Analyzed By |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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| Sample ID: | FH113009-1 | | I | Lab ID: | F0967638 | 301 | |
|--|--|--|--|---|--|--|------------|
| Sample Location: | | | | | | | |
| Sample Location. | 8025 MOORE RD. | | | | | | |
| | INDIANAPOLIS, IN | 1 46278 | | | | | |
| | INDIANAPOLIS, IN | 402/8 | | | | | |
| Reason for Sampli | ng: Survey | | Sample De | escription: d | litch | | |
| Collection Inform | nation | | | | | | |
| Collection: | MCHD-WQ/IAQ/HN | лм | | | | | |
| oomoonom. | 3838 North Rural Str | | | | | | |
| | | | | | | | |
| | Indianapolis, IN 462 | 05 | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | C.H.M.M. | Γ | Date Received: | Novembe | r 30, 200 | 9 12:03 |
| Date Collected: | November 30, 2009 | 15:00 | | | | | |
| | | | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH113009-1 | | L | ab ID: | F0967638 | 01 | |
| Matrix: | Surface Water | | Ľ | Date Completed: | December | 4, 2009 | 15:28 |
| | | | | | | | |
| Received on Ice, 2- | 8 degrees Celsius | | Ľ | Date Reported: | December | 11, 2009 | 9 11:12 |
| - | | Den est Limit | | | | | |
| Test | 8 degrees Celsius Result | Report Limit | MDL | Date Reported: DF Prepared | December | By | Qual RegLm |
| Test | Result | | MDL | DF Prepared | | | |
| Test METALS Analysis Desc: | Result EPA 200.8 | Report Limit | | DF Prepared | | | |
| Test METALS Analysis Desc: Registration Number: | Result EPA 200.8 EPA/ISDH C-49-04 | Analytical Method: | MDL EPA 200 | DF Prepared | Analyzed | By | |
| Test METALS Analysis Desc: Registration Number: Arsenic | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L | Analytical Method: | MDL | DF Prepared | Analyzed 12/04/2009 | By | |
| Test METALS Analysis Desc: Registration Number: Arsenic Barium | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L | Analytical Method: 1.0 4.0 | MDL EPA 200 0.29 0.47 | DF Prepared .8 1 1 | Analyzed 12/04/2009 12/04/2009 | By ND ND | |
| Test METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 0.50 | MDL EPA 200 0.29 0.47 0.17 | DF Prepared | Analyzed 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND | |
| Test METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Chromium | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 | MDL EPA 200 0.29 0.47 | DF Prepared .8 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND | |
| Test METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Chromium Mercury | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 | DF Prepared .8 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND | |
| Test METALS Analysis Desc: Registration Number Arsenic Barium Cadmium Cadmium Chromium Mercury Lead | Result EPA 200.8 : EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 | DF Prepared .8 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND | |
| Test METALS Analysis Desc: Registration Number Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 | DF Prepared .8 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND | |
| Test METALS Analysis Desc: Registration Number Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L 3.2 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 2.0 20.0 1.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 | DF Prepared .8 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND | |
| Fest METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Cadmium Chromium Mercury .ead Copper Nickel Zinc | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND | |
| Fest METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Cardmium Mercury Lead Copper Vickel Zinc Calcium | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L 3.2 ug/L 96.6 ug/L 97700 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 1.0 10.0 1000 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND | |
| Fest METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Cardmium Mercury Lead Copper Vickel Zinc Calcium Magnesium | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L 3.2 ug/L 96.6 ug/L 97700 ug/L 37200 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND ND | |
| Fest METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L 3.2 ug/L 96.6 ug/L 97700 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 2.0 20.0 1.0 1.0 10.0 1000 1000 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND | |
| Test METALS Analysis Desc: Registration Numbers Arsenic Barium Cadmium Cadmium Mercury Lead Copper Vickel Zinc Calcium Magnesium Hardness CATIONS | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L 3.2 ug/L 96.6 ug/L 97700 ug/L 37200 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 2.0 20.0 1.0 1.0 10.0 1000 1000 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND ND | |
| Test METALS Analysis Desc: Registration Number Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness CATIONS Ammonium | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.13 ug/L) BDL (<0.10 ug/L) 129 ug/L 3.2 ug/L 96.6 ug/L 97700 ug/L 37200 ug/L 397 mg/L CaCO3 | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 1.0 10.0 1000 1000 7.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND ND | |
| Fest METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Caromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness CATIONS Ammonium ANIONS Analysis Desc: | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 1.0 10.0 1000 1000 7.0 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND ND | |
| Test METALS Analysis Desc: Registration Number: Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness CATIONS Ammonium ANIONS Analysis Desc: | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 2.0 20.0 1.0 1.0 1000 1000 7.0 0.20 Analytical Method: | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 13 1.4 0.038 EPA 300. | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND TZ | |
| Registration Number Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness CATIONS Ammonium ANIONS Analysis Desc: | Result EPA 200.8 EPA/ISDH C-49-04 4.8 ug/L 158 ug/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 2.0 1.0 1.0 10.0 1000 1000 7.0 0.20 | MDL EPA 200 0.29 0.47 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 13 1.4 | DF Prepared .8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 12/04/2009 | By ND ND ND ND ND ND ND ND ND ND ND | |



Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample Information | | | | | | | | |
|--------------------------------------|--|-------------------|--------|-----------------|------------|-------------------------|-------------|--|
| Sample ID: | FH113009-1 | | | Lab ID: | F096763 | 801 | | |
| Sample Location: | 8025 MOORE RI INDIANAPOLIS | | | | | | | |
| Reason for Sampling: | | | Sample | Description: | sw | | | |
| Collection Information | 1 | | | | | | | |
| Collection: | MCHD-WQ/IAQ 3838 North Rura Indianapolis, IN | Street, 5th Floor | | | | | | |
| Collected By: | Fikru Hailu, M.P. | H., C.H.M.M. | | Date Received: | Novembe | November 30, 2009 15:22 | | |
| Date Collected: | November 30, 20 | 09 15:00 | | | | | | |
| Final Results | | | | | | | | |
| Sample ID: | FH113009-1 | | | Lab ID: | F096763 | 801 | | |
| Matrix: | Surface Water | | | Date Completed: | Novembe | er 30, 2009 | 2:00 | |
| | | | | Date Reported: | Decembe | r 1, 2009 | 10:01 | |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | Ву | Qual RegLmt | |
| MICROBIOLOGY MPN Escherichia coli | >24192 | 10 | | 1 | 11/30/2009 | JJ | 235 | |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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| Sample ID: | FH012010-1 | | | Lab ID: | E1002544 | 401 | |
|--------------------------|-------------------|-------------------|--------|-----------------|------------|---------|------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RI |), | | | | | |
| | INDIANAPOLIS | , IN 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: N | 400SE | | |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ | /HMM | | | | | |
| | 3838 North Rural | Street, 5th Floor | | | | | |
| | Indianapolis, IN | 46205 | | | | | |
| Collected By: | Fikru Hailu, M.P. | Н., С.Н.М.М. | | Date Received: | January 2 | 0, 2010 | 10:32 |
| Date Collected: | January 20, 2010 | 10:20 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH012010-1 | | | Lab ID: | E1002544 | 401 | |
| Matrix: | Surface Water | | | Date Completed: | January 2 | 0, 2010 | 0:00 |
| Received on Ice, 2-8 deg | rees Celsius | | | Date Reported: | January 2 | 1, 2010 | 11:27 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| MICROBIOLOGY | | | | | | | |
| MPN Escherichia coli | >24192 | 10 | | 1 | 01/20/2010 | DG | 235 |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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| Sample ID: | FH012010-1 | | 1 | Lab ID: | E1002544 | -01 | |
|---|--|---|---|---|--|--|----------------------|
| Sample Location: | | | | | | | |
| Sumple Location. | 8102 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| | INDIANAI OLIS, IN | 40276 | | | | | |
| Reason for Sampling: | Survey | | Sample De | escription: I | Ditch | | |
| Collection Information | ı | | | | | | |
| Collection: | MCHD-WQ/IAQ/HN | 4M | | | | | |
| | 3838 North Rural Str | eet. 5th Floor | | | | | |
| | Indianapolis, IN 462 | | | | | | |
| | - | | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | С.Н.М.М. | 1 | Date Received: | January 2 | 0, 2010 | 11:18 |
| Date Collected: | January 20, 2010 10: | 20 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH012010-1 | | I | Lab ID: | E1002544 | 01 | |
| Matrix: | Surface Water | | I | Date Completed: | January 2 | 2, 2010 | 10:48 |
| | | | | | | | |
| Received on Ice, 2-8 degr | ees Celsius | | 1 | Date Reported: | January 2 | 7, 2010 | 10:48 |
| | | Report Limit | | | | | |
| Test | ees Celsius Result | Report Limit | I MDL | Date Reported: DF Prepared | January 2 Analyzed | 7, 2010 By | 10:48 Qual RegLmt |
| Test METALS | Result | | MDL | DF Prepared | | | |
| Test METALS Analysis Desc: EPA 20 | Result | Report Limit Analytical Method: | | DF Prepared | | | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I | Result | | MDL | DF Prepared | | | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic | Result)0.8 ISDH C-49-04 | Analytical Method: | MDL EPA 200 | DF Prepared | Analyzed | By | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium | Result)0.8 ISDH C-49-04 2.0 ug/L | Analytical Method: | MDL EPA 200 0.29 | DF Prepared | Analyzed 01/22/2010 | By TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L | Analytical Method: 1.0 4.0 | MDL EPA 200 0.29 0.47 | DF Prepared 0.8 1 1 | Analyzed 01/22/2010 01/22/2010 | By TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L | Analytical Method: 1.0 4.0 1.0 | MDL EPA 200 0.29 0.47 0.19 | DF Prepared 0.8 1 1 5 | Analyzed 01/22/2010 01/22/2010 01/25/2010 | By TZ TZ DW | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 1.0 0.50 | MDL EPA 200 0.29 0.47 0.19 0.17 | DF Prepared 0.8 1 1 5 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 | By TZ TZ DW TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) | Analytical Method: 1.0 4.0 1.0 0.50 3.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 | DF Prepared 0.8 1 1 5 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 | DF Prepared 0.8 1 1 5 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) 445 ug/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 | DF Prepared 0.8 1 5 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) 445 ug/L 89.9 ug/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) 445 ug/L 89.9 ug/L 1.4 ug/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.13 ug/L) 445 ug/L 89.9 ug/L 1.4 ug/L 34.9 ug/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 1.0 10.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) 445 ug/L 89.9 ug/L 1.4 ug/L 34.9 ug/L 127000 ug/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 10.0 1000 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) 445 ug/L 89.9 ug/L 1.4 ug/L 34.9 ug/L 127000 ug/L 44100 ug/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 10.0 1000 1000 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/1 Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 | Result 00.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 10.0 1000 1000 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 Registration Number: EPA/I | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 7.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ TZ TZ | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/I Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) BDL (<0.27 ug/L) BDL (<0.13 ug/L) 445 ug/L 89.9 ug/L 1.4 ug/L 34.9 ug/L 127000 ug/L 44100 ug/L 499 mg/L CaCO3)0.0 ISDH C-49-04 56.4 mg/L | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 2.0 2.0 1.0 1.0 1.0 1.0 1.0 1.0 0.20 2.0 2.0 2.0 2.0 2.0 2.0 | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 1.4 EPA 300 0.065 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 0.0 1 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ TZ TZ TZ DW | |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/1 Arsenic Barium Ammonium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 Registration Number: EPA/1 Chloride | Result)0.8 ISDH C-49-04 2.0 ug/L 780 ug/L 7.0 mg/L BDL (<0.17 ug/L) | Analytical Method: 1.0 4.0 1.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 7.0 Analytical Method: | MDL EPA 200 0.29 0.47 0.19 0.17 0.27 0.13 0.10 0.26 0.15 1.4 13 1.4 1.4 EPA 300 | DF Prepared 0.8 1 1 5 1 1 1 1 1 1 1 1 1 1 1 0.0 | Analyzed 01/22/2010 01/22/2010 01/25/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 01/22/2010 | By TZ TZ DW TZ TZ TZ TZ TZ TZ TZ TZ TZ | |

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| Sample Information | | | | | | | |
|--------------------------------------|--|-------------------|--------|----------------|--------------|---------|------------|
| Sample ID: | AR012810-2 | | | Lab ID: | E1004419 | 901 | |
| Sample Location: | 8102 MOORE RI INDIANAPOLIS | , | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: | DITCH 8102 M | OORE R | D |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ 3838 North Rura Indianapolis, IN | Street, 5th Floor | | | | | |
| Collected By: | Fikru Hailu, M.P. | Н., С.Н.М.М. | | Date Received: | January 2 | 8, 2010 | 15:23 |
| Date Collected: | January 28, 2010 | 13:55 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | AR012810-2 | | | Lab ID: | E1004419 | 901 | |
| Matrix: | Surface Water | | | Date Completed | : January 2 | 8, 2010 | 0:00 |
| Received on Ice, 2-8 degr | rees Celsius | | | Date Reported: | January 2 | 9, 2010 | 12:28 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| MICROBIOLOGY MPN Escherichia coli | >24192 | 10 | | 1 | 01/28/2010 | DG | 235 |

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| Sample ID: | AR012810-2 | | | Lab ID: | E1004419 | 001 | |
|----------------------------|-----------------------|--------------------|----------------|-----------------|--------------------------|----------|-------------|
| Sample Location: | | | | | | | |
| - | 8102 MOORE RD |), | | | | | |
| | INDIANAPOLIS, | IN 46278 | | | | | |
| Reason for Sampling: | | | Sample | Description: d | itch | | |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ/ | НММ | | | | | |
| | 3838 North Rural | Street, 5th Floor | | | | | |
| | Indianapolis, IN 4 | 6205 | | | | | |
| Collected By: | Fikru Hailu, M.P.H | Н., С.Н.М.М. | | Date Received: | January 2 | 8, 2010 | 4:50 |
| Date Collected: | January 28, 2010 | 13:55 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | AR012810-2 | | | Lab ID: | E1004419 | 001 | |
| Matrix: | Surface Water | | | Date Completed: | January 2 | 9, 2010 | 4:57 |
| Received on Ice, 2-8 degr | rees Celsius | | | Date Reported: | February | 16, 2010 | 11:02 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLmt |
| ANIONS | | | | | | | |
| Analysis Desc: EPA 30 | | Analytical Method: | EPA 3 | 300.0 | | | |
| Registration Number: EPA/ | | | | | | | |
| Chloride | 48.7 mg/L | 2.0 | 0.065 | 1 | 01/29/2010 | ND | |
| Nitrite | 0.25 mg/L | 0.20 | 0.010 | 1 | 01/29/2010 | ND | |
| Nitrate Ortho-Phosphate | 3.0 mg/L 0.58 mg/L | 0.20 0.20 | 0.025 0.063 | 1 | 01/29/2010 01/29/2010 | ND | |
| Sulfate | 69.4 mg/L | 2.0 | 0.063 | 1 | 01/29/2010 | ND | |
| CATIONS | 69.4 mg/L | 2.0 | 0.15 | I | 01/29/2010 | ND | |
| CATIONS | | | | | | | |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH031110-1 | | | Lab ID: | F1010808 | 301 | |
|--------------------------|-------------------|-------------------|--------|-----------------|------------|----------|------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RI | Э, | | | | | |
| | INDIANAPOLIS | , IN 46278 | | | | | |
| Reason for Sampling: | Routine | | Sample | Description: | DITCH | | |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ | /HMM | | | | | |
| | 3838 North Rural | Street, 5th Floor | | | | | |
| | Indianapolis, IN | 46205 | | | | | |
| Collected By: | Fikru Hailu, M.P. | Н., С.Н.М.М. | | Date Received: | March 11 | , 2010 1 | 1:23 |
| Date Collected: | March 11, 2010 | 10:40 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH031110-1 | | | Lab ID: | F1010808 | 301 | |
| Matrix: | Surface Water | | | Date Completed: | March 11 | , 2010 3 | :00 |
| Received on Ice, 2-8 deg | rees Celsius | | | Date Reported: | March 12 | , 2010 9 | :45 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | Ву | Qual RegLm |
| MICROBIOLOGY | | | | | | | |
| MPN Escherichia coli | >24192 | 10 | | 1 | 03/11/2010 | JJ | 235 |

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Addendum-2005 Eagle Creek Watershed Management Plan

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample Information | | | | | | | |
|---|----------------------|--------------------|--------|----------------|------------|-----------|-------------|
| Sample ID: | FH031110-1 | | | Lab ID: | F1010808 | 801 | |
| Sample Location: | | | | | | | |
| | 8102 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | | | Sample | Description: | ditch | | |
| Collection Information | | | | | | | |
| Collection: | MCHD-WQ/IAQ/H | ММ | | | | | |
| | 3838 North Rural St | reet, 5th Floor | | | | | |
| | Indianapolis, IN 462 | 205 | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | C.H.M.M. | | Date Received: | March 11 | , 2010 1 | 1:23 |
| Date Collected: | March 11, 2010 10:4 | 40 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH031110-1 | | | Lab ID: | F1010808 | 301 | |
| Matrix: | Surface Water | | | Date Completed | March 12 | , 2010 14 | 4:26 |
| Received on Ice, 2-8 degree | es Celsius | | | Date Reported: | April 1, 2 | 010 8:00 | 0 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | Ву | Qual RegLmt |
| ANIONS | | | | | | | |
| Analysis Desc: EPA 300. Registration Number: EPA/ISI | | Analytical Method: | EPA 3 | 0.00 | | | |
| Ortho-Phosphate | 0.92 mg/L | 0.20 | 0.028 | 1 | 03/12/2010 | ND | |
| CATIONS | | | | | | | |
| Ammonium | 2.0 mg/L | 0.20 | 0.039 | 1 | 03/31/2010 | ND | |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH061610-1 | | | Lab ID: | E1027878 | 301 | |
|--------------------------|----------------------|-----------------|--------|-----------------|------------|------------|------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: | 3102 DITCH | | |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM | ИМ | | | | | |
| | 3838 North Rural Str | reet, 5th Floor | | | | | |
| | Indianapolis, IN 462 | 05 | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | C.H.M.M. | | Date Received: | June 16, 2 | 2010 10:59 | |
| Date Collected: | June 16, 2010 9:35 | | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH061610-1 | | | Lab ID: | E1027878 | 301 | |
| Matrix: | Surface Water | | | Date Completed: | June 16, 2 | 2010 0:00 | |
| Received on Ice, 2-8 deg | rees Celsius | | | Date Reported: | June 18, 2 | 2010 7:56 | |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| MICROBIOLOGY | | | | | | | |
| MPN Escherichia coli | 24192 MPN/100mL | . 10 | | 1 | 06/16/2010 | AC | 235 |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH061610-1 | | | Lab ID: | | E1027878 | 301 | |
|-----------------------------|---------------------|--------------------|----------|----------------|-------|------------|------------|-------------|
| Sample Location: | | | | | | | | |
| | 8102 MOORE RD, | | | | | | | |
| | INDIANAPOLIS, | N 46278 | | | | | | |
| Reason for Sampling: | Survey | | Sample I | Description: | ditch | | | |
| Collection Information | | | | | | | | |
| Collection: | MCHD-WQ/IAQ/H | IMM | | | | | | |
| | 3838 North Rural S | treet, 5th Floor | | | | | | |
| | Indianapolis, IN 40 | 5205 | | | | | | |
| Collected By: | Fikru Hailu, M.P.H | ., C.H.M.M. | | Date Received: | | June 16, 2 | 2010 10:55 | |
| Date Collected: | June 16, 2010 9:3 | 5 | | | | | | |
| Final Results | | | | | | | | |
| Sample ID: | FH061610-1 | | | Lab ID: | | E1027878 | 301 | |
| Matrix: | Surface Water | | | Date Completed | : | June 17, 2 | 2010 4:46 | |
| Received on Ice, Out of Ra | inge, 2-8 deg C | | | Date Reported: | | June 24, 2 | 2010 7:43 | |
| Test | Result | Report Limit | MDL | DF Prepared | Ar | alyzed | By | Qual RegLmt |
| ANIONS | | | | | | | | |
| Analysis Desc: EPA 300 | | Analytical Method: | EPA 30 | 0.00 | | | | |
| Registration Number: EPA/IS | | 0.20 | 0.029 | | 00 | 17/2010 | | |
| Ortho-Phosphate | 2.1 mg/L | 0.20 | 0.028 | 1 | 06 | /17/2010 | ΤZ | |
| CATIONS | | | | | | | | |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH090910-1 | | | Lab ID: | E1044706 | 501 | |
|---------------------------|-----------------------|----------------|--------|-----------------|----------|-------------|-------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: I | DITCH | | |
| Collection Information | ı | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM | ſМ | | | | | |
| | 3838 North Rural Stre | eet, 5th Floor | | | | | |
| | Indianapolis, IN 462 | 05 | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | C.H.M.M. | | Date Received: | Septembe | er 9, 2010 | 14:57 |
| Date Collected: | September 9, 2010 14 | 4:15 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH090910-1 | | | Lab ID: | E1044706 | 601 | |
| Matrix: | Surface Water | | | Date Completed: | Septembe | er 9, 2010 | 3:00 |
| Received on Ice, 2-8 degr | ees Celsius | | | Date Reported: | Septembe | er 10, 2010 | 8:58 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLmt |
| | | | | | | | |

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| Sample ID: | FH090910-1 | | | Lab ID: | E1044706 | 501 | |
|--|--|--------------------|---------------|-----------------|--------------------------|------------|------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RD, | | | | | | |
| | INDIANAPOLIS, IN | 46278 | | | | | |
| | | 10270 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: D | oitch | | |
| Collection Information | | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM | IM | | | | | |
| | 3838 North Rural Stre | eet, 5th Floor | | | | | |
| | Indianapolis, IN 4620 |)5 | | | | | |
| Collected By: | Fikru Hailu, M.P.H., O | | | Date Received: | Septembe | r 9, 2010 | 14:57 |
| Date Collected: | September 9, 2010 14 | | | | | ,, | |
| Date Conceled. | September 9, 2010 1- | | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH090910-1 | | | Lab ID: | E1044706 | 501 | |
| Matrix: | Well Water | | | Date Completed: | Septembe | r 10, 2010 | 0:47 |
| Received on Ice, 2-8 degre | es Celsius | | | Date Reported: | October 1 | 3, 2010 | 7:41 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| ANIONS | | | | | | | |
| Analysis Desc: EPA 300 |).0 | Analytical Method: | EPA 3 | 00.0 | | | |
| Registration Number: EPA/IS | | | | | | | |
| Fluoride | 2.9 mg/L | 0.20 | 0.11 | 1 | 09/10/2010 | ΤZ | 4 |
| Chloride | 109 mg/L | 2.0 | 0.86 | 1 | 09/10/2010 | TZ | 250 |
| Nitrite | BDL (<0.028 mg/L) BDL (<0.077 mg/L) | 0.20 | 0.028 | 1 | 09/10/2010 | TZ | 1 |
| | | 0.20 | 0.077 | 1 | 09/10/2010 09/10/2010 | TZ | 10 |
| Nitrate | (, | 0.00 | | | | | 0.5 |
| Nitrate Ortho-Phosphate | 1.6 mg/L | 0.20 | 0.041 | 1 | | TZ | |
| Nitrate Ortho-Phosphate Sulfate | (, | 0.20 2.0 | 0.041 0.18 | 1 | 09/10/2010 | TZ | 250 |
| Nitrate Ortho-Phosphate Sulfate WET CHEMISTRY | 1.6 mg/L 52.3 mg/L | 2.0 | 0.18 | 1 | | | |
| Nutre Nitrate Ortho-Phosphate Sulfate WET CHEMISTRY Analysis Desc: EPA 350 Registration Number: EPA/IS | 1.6 mg/L 52.3 mg/L | | | 1 | | | |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH113010-1 | | | Lab ID: | E1057776 | 501 | |
|--------------------------|-------------------|-------------------|--------|-----------------|------------|-----------|------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RI |), | | | | | |
| | INDIANAPOLIS | , IN 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: I | DITCH | | |
| Collection Information | n | | | | | | |
| Collection: | MCHD-WQ/IAQ | /HMM | | | | | |
| | 3838 North Rural | Street, 5th Floor | | | | | |
| | Indianapolis, IN | 46205 | | | | | |
| Collected By: | Fikru Hailu, M.P. | Н., С.Н.М.М. | | Date Received: | Novembe | r 30, 201 | 0 11:45 |
| Date Collected: | November 30, 20 | 10 10:45 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH113010-1 | | | Lab ID: | E1057776 | 501 | |
| Matrix: | Surface Water | | | Date Completed: | Novembe | r 30, 201 | 0 0:00 |
| Received on Ice, 2-8 deg | rees Celsius | | | Date Reported: | Decembe | r 1, 2010 | 10:01 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | Ву | Qual RegLm |
| MICROBIOLOGY | | | | | | | |
| MPN Escherichia coli | >24192 | 10 | | 1 | 11/30/2010 | DG | 235 |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

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Addendum-2005 Eagle Creek Watershed Management Plan

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH113010-1 | | | Lab ID: | E1057776 | 501 | |
|---|--------------------------|--------------------|----------|-----------------|------------|-----------|------------|
| Sample Location: | | | | | | | |
| | 8102 MOORE RI | D, | | | | | |
| | INDIANAPOLIS | , IN 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample I | Description: D | litch | | |
| Collection Information | ı | | | | | | |
| Collection: | MCHD-WQ/IAQ | /HMM | | | | | |
| | 3838 North Rura | Street, 5th Floor | | | | | |
| | Indianapolis, IN | 46205 | | | | | |
| Collected By: | Fikru Hailu, M.P. | Н., С.Н.М.М. | | Date Received: | Novembe | r 30, 201 | 0 14:19 |
| Date Collected: | November 30, 20 | 10 10:45 | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH113010-1 | | | Lab ID: | E1057776 | 501 | |
| Matrix: | Surface Water | | | Date Completed: | December | 1, 2010 | 16:49 |
| Received on Ice, 2-8 degr | ees Celsius | | | Date Reported: | December | 8, 2010 | 7:43 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLm |
| ANIONS | | | | | | | |
| Analysis Desc: EPA 30 | | Analytical Method: | EPA 3 | 0.00 | | | |
| Registration Number: EPA/I Chloride | ISDH C-49-04 109 mg/L | 2.0 | 0.86 | 1 | 12/01/2010 | | |
| Vitrite | 0.35 mg/L | 0.20 | 0.028 | 1 | 12/01/2010 | ND ND | |
| Vitrate | 8.3 mg/L | 0.20 | 0.028 | 1 | 12/01/2010 | ND | |
| Ortho-Phosphate | 1.7 mg/L | 0.20 | 0.041 | 1 | 12/01/2010 | ND | |
| Sulfate | 153 mg/L | 2.0 | 0.18 | 1 | 12/01/2010 | ND | |
| WET CHEMISTRY | J | | | | | | |
| | 50.3 | Analytical Method: | EPA 3 | 50.3 | | | |
| Analysis Desc: EPA 35 | | | | | | | |
| Analysis Desc: EPA 35 Registration Number: EPA/I | | | | | | | |

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| Sample Information | | | | | | | |
|--------------------------------------|--|----------------|----------------|-----------------|------------|----------|-------------|
| Sample ID: | FH031711-1 | | | Lab ID: | E111131: | 501 | |
| Sample Location: | 8102 MOORE RD, INDIANAPOLIS, IN | 46278 | | | | | |
| Reason for Sampling: | Survey | | Sample | Description: | DITCH | | |
| Collection Information | ı | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM 3838 North Rural Str Indianapolis, IN 462 | eet, 5th Floor | | | | | |
| Collected By: | Fikru Hailu, M.P.H., | | Date Received: | , 2011 1 | 2:45 | | |
| Date Collected: | March 17, 2011 11:5 | | | | | | |
| Final Results | | | | | | | |
| Sample ID: | FH031711-1 | | | Lab ID: | E111131 | 501 | |
| Matrix: | Surface Water | | | Date Completed: | March 17 | , 2011 (|):00 |
| | | | | Date Reported: | March 18 | , 2011 9 | 9:53 |
| Test | Result | Report Limit | MDL | DF Prepared | Analyzed | By | Qual RegLmt |
| MICROBIOLOGY MPN Escherichia coli | 7270 MPN/100mL | 10 | | 1 | 03/17/2011 | DG | 235 |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample ID: | FH031711-1 | | | Lab ID: | E1111315 | 501 | | |
|--|---|---|----------------------------------|---|--|--|-------|------------|
| Sample Location: | | | | | | | | |
| Sample Location. | 8102 MOORE RD, | | | | | | | |
| | INDIANAPOLIS, IN 46278 | | | | | | | |
| | INDIANAFOLIS, IN | 40278 | | | | | | |
| Reason for Sampling: | | | Sample | Description: D | Ditch | | | |
| Collection Information | n | | | | | | | |
| Collection: | MCHD-WQ/IAQ/HM | 4M | | | | | | |
| concention. | | | | | | | | |
| | 3838 North Rural Street, 5th Floor | | | | | | | |
| | Indianapolis, IN 462 | 05 | | | | | | |
| Collected By: | Fikru Hailu, M.P.H., C.H.M.M. | | | Date Received: | March 17 | , 2011 | 12:45 | |
| Date Collected: | March 17, 2011 11:5 | March 17, 2011 11:50 | | | | | | |
| Final Results | | | | | | | | |
| Sample ID: | FH031711-1 | | | Lab ID: | E1111315 | 501 | | |
| Matrix: | Surface Water | | Date Completed: | March 23, 2011 16:06 | | | | |
| | | | 1 | March 25, 2011 7:2 | | | | |
| Passivad on Isa 2.9 dag | and Calaina | | | Data Dananta di | Marah 25 | 2011 | 7.24 | |
| Received on Ice, 2-8 degr | rees Celsius | | | Date Reported: | March 25 | , 2011 | 7:24 | |
| Received on Ice, 2-8 degr Test | rees Celsius Result | Report Limit | MDL | Date Reported: DF Prepared | March 25 | , 2011 By | | ual RegLm |
| | | Report Limit | MDL | | | | | ual RegLm |
| Test METALS Analysis Desc: EPA 20 | Result | Report Limit Analytical Method: | MDL EPA 2 | DF Prepared | | | | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ | Result 00.8 ISDH C-49-04 | Analytical Method: | | DF Prepared | Analyzed | Ву | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic | Result 00.8 ISDH C-49-04 3.1 ug/L | Analytical Method: | | DF Prepared | Analyzed 03/23/2011 | By | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L | Analytical Method: 1.0 4.0 | | DF Prepared | Analyzed 03/23/2011 03/23/2011 | By DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) | Analytical Method: 1.0 4.0 0.50 | | DF Prepared 200.8 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW | Q | ual RegLmi |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 | | DF Prepared 200.8 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 | | DF Prepared 200.8 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 | | DF Prepared 00.8 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel Zinc | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L 35000 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L 35000 ug/L 439 mg/L CaCO3 | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 7.0 | EPA 2 | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 | | DF Prepared 00.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 Registration Number: EPA/ | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L 35000 ug/L 439 mg/L CaCO3 00.0 ISDH C-49-04 | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 2.0 20.0 1.0 10.0 1000 1000 7.0 Analytical Method: | EPA 2 | DF Prepared 200.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 00.0 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 Registration Number: EPA/ Chloride | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L 35000 ug/L 439 mg/L CaCO3 00.0 ISDH C-49-04 63.5 mg/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 7.0 Analytical Method: 2.0 | EPA 2 EPA 3 0.054 | DF Prepared 200.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 Registration Number: EPA/ Chloride Nitrite | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L 35000 ug/L 439 mg/L CaCO3 00.0 ISDH C-49-04 63.5 mg/L 0.24 mg/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 7.0 Analytical Method: 2.0 0.20 | EPA 2 EPA 3 0.054 0.011 | DF Prepared 200.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |
| Test METALS Analysis Desc: EPA 20 Registration Number: EPA/ Arsenic Barium Cadmium Chromium Mercury Lead Copper Nickel Zinc Calcium Magnesium Hardness ANIONS Analysis Desc: EPA 30 Registration Number: EPA/ Chloride | Result 00.8 ISDH C-49-04 3.1 ug/L 107 ug/L BDL (< ug/L) BDL (< ug/L) BDL (< ug/L) 2.3 ug/L 35.0 ug/L 2.9 ug/L 15.1 ug/L 118000 ug/L 35000 ug/L 439 mg/L CaCO3 00.0 ISDH C-49-04 63.5 mg/L | Analytical Method: 1.0 4.0 0.50 3.0 0.20 2.0 20.0 1.0 10.0 1000 1000 7.0 Analytical Method: 2.0 | EPA 2 EPA 3 0.054 | DF Prepared 200.8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Analyzed 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 03/23/2011 | By DW DW DW DW DW DW DW DW DW DW DW | Q | ual RegLm |

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Phone: (317) 221-4670 Fax: (317) 221-4683

| Sample Information | | | | | | | | |
|------------------------------|--|----------|-----------------|-------|----------------------|--|--|--|
| Sample ID: | FH031711-1 | | Lab ID: | | E111131501 | | | |
| Sample Location: | 8102 MOORE RD, INDIANAPOLIS, IN 46278 | | | | | | | |
| Reason for Sampling: | | Sample D | Description: | Ditch | | | | |
| Final Results | | | | | | | | |
| Sample ID: | FH031711-1 | | Lab ID: | | E111131501 | | | |
| Matrix: | Surface Water | | Date Completed: | | March 17, 2011 23:31 | | | |
| Received on Ice, 2-8 degrees | s Celsius | | Date Reported: | | March 25, 2011 7:24 | | | |

Testing performed at Marion County Health Department Public Health Laboratory, ISDH# M-49-02, 3838 North Rural Street, Indianapolis, IN 46205

CERTIFICATE OF ANALYSIS

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Addendum-2005 Eagle Creek Watershed Management Plan

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