

APPENDIX

Background

The Unsewered Communities project sponsored by The Miami Valley Regional Planning Commission (MVRPC) is a formal Feasibility Study looking at five small communities in the Miami Valley area that are served by septic systems that no longer provide adequate wastewater treatment. Environmental and health agencies are concerned about potential for pollution from these systems to harm the environment and human health. MVRPC is partnering with Ohio EPA and Public Health Districts in the Miami Valley to conduct a feasibility Study for each of these 5 high priority communities experiencing environmental and public health concerns due to large concentrations of failing or underperforming home sewage treatment systems. This public involvement summary reflects the public activity, Steering Committee input and responses from the Jackson Township area.

Public Involvement Summary

Steering Committee Meeting #1

The project was spearheaded with a kickoff meeting held January 19, 2015 at the Jackson Township Hall – 10653 Staudt Rd. Union City, Ohio, to explain the goals of the project to a group of Steering Committee members. Those in attendance can be found on the sign-in sheet attached to this summary. Discussion topics included: Areas of concern as prioritized by the Darke County Health Dist., why the Feasibility Study is being done, how the community feels about having a public sewer system, previous studies done, areas of future growth areas, and areas of special concern with regard to sewer. Areas included in the study were discussed as well as types of sewer systems considered, types of treatment systems considered and funding source possibilities. Next steps in the process, and a schedule for the next Steering Committee meetings as well as discussing a date for the upcoming public meeting were discussed. Many questions were asked by the Steering Committee members. The questions and responses are included in the attached meeting minutes.

Steering Committee Meeting #2

The next Steering Committee Meeting was held on April 7, 2015 at the Jackson Township Hall – 10653 Staudt Rd. Union City, Ohio. Those in attendance can be found on the attached sign-in sheet. The goals of the meeting were: To go over the preliminary work that IBI Group had developed up to that point which had generated additional questions for the Steering Committee; to identify potential property for a treatment facility if necessary and answer any questions from the Steering Committee. The intention of the project team was to investigate different treatment and collection alternatives, as well as presenting overall project cost estimates, estimated maintenance and operational costs, and present worth evaluations on different scenarios for the purposes of selecting a recommended plan. The project team reached out to Union City to determine their interest in accepting wastewater flows from Jackson Township. Presently their lagoon wastewater plant is near capacity. The questions from the Steering Committee as well as responses can be found in the attached Steering Committee meeting minutes. Sewer systems, treatment systems, and finance options were discussed in depth. The dates for the next Steering Committee and Public meeting were discussed and established.

Steering Committee Meeting #3

The final Steering Committee meeting was held on June 2, 2015 at the Mississinawa Valley H.S. Staudt Rd. Union City, Ohio. A Draft Final Plan was introduced to the Steering Committee with the findings and a

Unsewered Communities Project Public Involvement Summary Jackson Township



recommendation. The committee had been given the opportunity to review, comment, and ask questions on the report recommendations. The review and discussion was in preparation for the upcoming public meeting which was scheduled for June 14, 2015. The Report was also put on line and could be reached via the MVRPC website. The project area was discussed, sewer systems and treatment systems considered were discussed. Many questions were asked with responses included in the attached meeting minutes.

The recommendation as stated in the Study is: Jackson Township should install a Grinder pump collection system with connections into the Union City sewer system for treatment at the Union City lagoon treatment facility. However, at this time, Union City has expressed that they would not be interested in providing treatment services for Jackson Township. Jackson Township should continue to meet with Union City and determine if this option is viable.

Should this option not workout, Jackson Township should install a Grinder Pump collection system and construct its own lagoon treatment facility.

Public Meeting – May 30, 2015

The Public Meeting for the area of Jackson Township – Unsewered Communities project was held on June 16, 2015 at the Mississinawa Valley H.S. Staudt Rd. Union City, Ohio. An overview of the project was given after the meeting purpose and agenda. All attendees were given an opportunity to provide written comments to the project team, leaving them as they left the meeting or mailing them to IBI Group. Matt L. of MVRPC stated that the Study produced by IBI Group was not a decision making document but was information to help the leaders of the County to make decisions going forward with a potential sewer project. The meeting was co-facilitated by Roberta Mangen and Dr. Terrance Holman of the Darke County Health District. They explained the reasons for concern in terms of the individual sewer system issue in the Jackson County area as well as an explanation of the new rules for sewage management/maintenance from Ohio EPA. Keith D. – IBI Group presented the sewer systems and treatment systems considered for the Study, why the team came to the recommendation in the report, and discussed the possible funding options available. The many questions from the attendees and answers can be found in the Public meeting minutes attached.

Five copies of the Study were provided for the public to review and financing possibilities were discussed in depth. Announcements and public notices for the June 16th public meeting are attached.

Next Steps

If the County decides to move forward, the following items should be addressed:

1. Ongoing discussions with Union City is recommended.
2. Hire an Engineering firm to coordinate with Funding Agencies, survey the area, design the project, and secure EPA permits.
3. Continue to keep the public informed.

Unsewered Communities Project Kick-Off Meeting Agenda



Jackson Township, Darke County, Ohio January 19, 2015 7:00pm

Thank you for allowing us the opportunity to meet with you and discuss the development of a report for wastewater collection and treatment planning for your community.

The Miami Valley Regional Planning Commission (MVRPC) is partnering with OEPA and public health districts in the Miami Valley to conduct feasibility studies for high priority communities experiencing environmental and public health concerns due to large concentrations of failing or underperforming home sewage treatment systems.

The "Unsewered Communities Project," will provide the results of these vital wastewater treatment feasibility studies to participating communities that choose to take part in the study process. MVRPC has contracted with IBI Group in the development of a General Plan for your community. IBI Group (formerly M•E/IBI Group) has worked closely with numerous communities like yours guiding them through the rigors of developing a cost-effective plan and implementing the plan through construction and start-up. The development of a General Plan does not commit you to installing with a public sewer system. It does, however, provide you with potential alternatives, cost estimates, a funding plan, and schedule should you decide as a community that a sewer system is in its best interest and want to proceed further with engineering design and funding applications.

Introductions/Steering Committee Members:

IBI Group / Burton Planning Services:

Keith Doll, P.E., Project Manager
Maria Borchers, Project Engineer
Nicole Clune, P.E., Planning Director

MVRPC:

Matthew Lindsay, Manager of Environmental Planning
Kjirsten Frank Hoppe, Regional Planner II

Darke County:

James P. Surber, P.E., P.S., County Engineer
Ms. Roberta Mangen, Director of Environmental Health
Terry Holman, County Health District
Ms. Diane L. Delaplane, Commissioner
Mr. Michael W. Rhoades, Commissioner
Mr. Michael E. Stegall, Commissioner

Jackson Township in Darke County:

Ms. Sandy Denniston, Fiscal Officer
Mr. Richard Brooks, Trustee
Mr. James D. Hanes, Trustee
Mr. Doug Longfellow, Trustee

Village of Union City:

Mr. Scott Stahl, Mayor & Administrator
Mr. Michael Coning, Council Member
Mr. John Fields, Council Member
Mr. Bradley Horsley, Council Member

Ms. Meta Sue Livingston, Council Member
Mr. Duane Pouder, Council Member
Mr. Zachary Pruitt, Council Member

Washington Township (Darke County):

Ms. Janet L. Feurer, Fiscal Officer
William E. Hart, Trustee
Joe L. Martin, Trustee
Mark A. Cox, Trustee

OEPA Surface Water:

Glen Vonderembse
Joe Miller
Deborah Roth

Questions to assist us:

The following is a list of general questions to help us get started with the study:

- What would you want to see as an outcome to this study / what is important to you? How do you feel about a public sewer system in Jackson Township?
- Have there been any previous projects in the area where mapping or plans are available for review? Waterline projects / Roadway projects?
- Have there been any previous studies for providing sanitary sewers? Are these available for review?
- Does the area currently have public water? If so, who is the provider?
- Does the area currently have a billing system for its customers? i.e. water & storm sewer.
- Are there any future growth areas identified within the area? i.e. future residential community or commercial project.
- Are there any isolated problem areas or pockets of concern that you can discuss? i.e. sewage smell on a particular street.
- How often would the Steering Committee prefer to meet? Dates & Times?

Next Steps?

- We will be coordinating with Ohio EPA, Darke County Health District, Darke County Sanitary Engineer, Darke County Soil & Water, MVRPC, and Union City.
- We will make several field visits to take notes and gather information
- Monthly (or as necessary) Steering Committee meetings to update progress
- A draft General Plan will be provided for review and comment
- Public meeting (at your discretion) to present to residents
- Final General Plan Developed
- Submit final plan to EPA

What does a General Plan Consist of?

The following is a draft outline of what may be included in your General Plan:

1. Executive Summary Alternatives Considered	4. Future Conditions Land Use / Development
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Conclusions
Implementation

2. Introduction

Background/Objective
Scope/Planning Area
Methodology

3. Existing Conditions

Planning Area
Existing Wastewater/Water Systems
Environmental: Geology & Hydrology, Soils,
Topo, Water Quality, Wetlands, Flood
Hazard Area
Land Use & Zoning
Populations

Population Projections
Projected Wastewater Flow and Loadings

5. Wastewater System Alternatives

Alternative 1: Cost / Layout
Alternative 2 (if necessary): Cost / Layout
Alternative 3 (if necessary): Cost / Layout

6. Selected Plan

Cost Summary

7. Implementation

Funding
Schedule

Unsewered Communities Project Kick-Off Steering Committee #1 Meeting Minutes



**Jackson Township, Darke County, Ohio
January 19, 2015 at 7:00pm**

Attending: See attached sign-in sheet.

- Ms. Kjirsten Frank Hoppe, with MVRPC, attended in Mr. Lindsey's place

Meeting Minutes:

Introductions were made around the room.

Mr. Doll opened. The purpose of tonight's meeting is to introduce the Unsewered Communities study for Jackson Township and to give the consultant team the best knowledge and guidance on what's going on in the Jackson Township area. MVRPC has received a grant from the OEPA to study five unsewered communities within the Miami Valley Area. Jackson Township is the last of the five. This study will provide various options to provide sewers to the areas of concern in Jackson Township.

IBI Group will explore all feasible options. A map that indicates the areas of concern, developed by the Darke County Health District, has been brought as a starting point. Mr. Doll stated that connection into Union City's sanitary system may be the most logical. He would like to meet with Union City and discuss some of the alternatives as well. IBI Group hasn't looked into flow projections, house counts or topography yet.

Roberta (Darke County Health District) provided a background on how the homes on the map were selected. They developed this list when 319 grants were conducted a few years ago. They picked a lot of the row/cluster houses with discharging systems that don't meet Health District standards. Areas of concern were prioritized as:

- #1, Union City- Elroy Road & SR 47: 38 properties. 32 aeration systems, 5 with up-flow filters; 35 lots are 1 acre or less.
- #2, SR 571, Beatrice Drive & Beamsville-UC Rd.: 107 properties. 35 are tank-to-tiles, some sand filters. Having trouble with all these row houses that are tied into one tile that starts to fail and isn't designed to standards.
- #3, Arnold Road: 9 properties on 0.4591 acre lots, all aeration systems and none with up-flow filters.
- #4, Pickett Road: 12 properties, 11 on 0.4591 acre lots. All with aeration systems installed prior to 1980.

Mr. Doll: This study is not locking the county in to design or implementation. This is a study just to identify alternatives. It is the hope that something would come of this study. May prioritize recommended solutions in the study as Areas A, B, C, to be constructed as funding becomes available. If considering funding in pieces, this would be a multi-year project but at least the township would have a plan to move forward.

All unsewered areas are within the township, but the county commissioners would take the lead if sewers were implemented. We want everybody's input and we want everyone to be on the same page.

Ms. Hoppe: do you want us to look at all these areas, or do you want us to focus on the Hillgrove area? Hillgrove declined.

Twp. Fiscal Officer: the cost to the homeowners? Subsidized houses in the Hillgrove area, they do not have a lot of money to be able to afford this. What would the cost be? Mr. Doll: That is what this study is

about. We will identify alternatives, put together costs (Operation & Maintenance, treatment, debt costs) and consider potential funding sources as well. Will put together a summary to help understand what the average cost per customer could be. If we can get it down to a more reasonable cost, then maybe people can afford it and it may be easier to move forward with.

Mr. Doll: We are going to take into account some of the outlying areas as well. Even if the adjacent township is not part of this right now, we are going to look at those areas such as Hillgrove and include them.

What are the priorities if funding in pieces? Health District:

- Priority #1: 47 and Union City Elroy;
- Priority #2: down 571.
- The others would be the third priority.

Mr. Doll referenced the second page of the agenda sheet, moving onto brainstorming/general questions to help collect information for the study.

Mr. Doll: What does the committee want to see as an outcome of the study? How does the committee feel about a public sewer in the Jackson Township area? Cost is important, obviously. Health and safety is driving this.

Mr. Doll: Have there been any residential concerns/resident complaints? Health District: some homes along 571 are having problems (back-ups).

Trustee: Concerned that cost will be astronomical. The thought is to do the study and see where they are at, then if funding is available, they could move forward.

Mr. Doll: Growth in the area? Twp.: No growth. Health District: But if sewer was extended, it could spur growth.

Mr. Doll: Opportunity for farms to turn into development? Twp.: There is an industrial park with just one building in it.

Twp.: Nobody will be in favor of it, in terms of residents. They will come down on Trustees hard. But if the Health District starts coming down with rules that make the residents have to do something, they figure having the plan in place will be easier. Health District: If the residence has tank-to-tile, they will have to put in a better system.

Twp.: we aren't in favor of this in its entirety.

Mr. Doll: Have these areas been considered for public sewer in the past? No.

Twp.: Heard that Union City's sewer system is at capacity. Mr. Doll will need to look at this.

OEPA: They may have capacity... the facility is set up as a land-applied lagoon system. They discharge the water when the ground is receptive to create capacity in the lagoons. Mr. Holmes thinks they should have capacity, but will have to check.

Trustee: Heard that money will have to be invested into Union City's system within the next few years.

Mr. Doll: Some things, such as requirement for annexation to receive sewer, may be requirements for service. Trustees: not in favor of annexing down SR 571. Mr. Doll will consider the alternatives.

Twp.: How will funding work? Mr. Doll: OEPA has funding thru DEFA (Dept. of Environmental & Financial Assistance). Median household income is a consideration – principal forgiveness is an option if low income area. Community Development Block Grant (CDBG) is another source (though the county commissioners) and CDBG water and sewer funding – dollar for dollar grant up to \$600,000... Again, low

income areas would definitely benefit. Regionalizing the county and Union City would help the scoring application. Ohio Public Works commission provides grants and low interest loans as well. Rural Development and Ohio Water Development authority can provide grants as well. IBI Group does this kind of work quite a bit to find grants and funding for their clients, so they have a very good handle on that. Will look at the conditions of the area and hopefully provide a good approximation to move forward with. Obviously the days of finding a 100% grant will not happen; even if you do, the customers will still need to pay their monthly treatment cost. The purpose is to get to reasonable costs to make it affordable to the residents.

Twp.: Who has the final say on this study, whether to proceed with this? MVRPC: MVRPC is contractually obligated with the OEPA to conduct the study, but as far as applying for funds, that is entirely up to the locals and MVRPC would facilitate that. The County Commissioners would be the lead.

Twp.: We don't want to do this survey and then have the commissioners make us do this. Mr. Doll: that's the purpose of these meetings – to have everybody sitting at the table discussing these concerns and find a solution that makes sense for everybody. MVRPC: the study will be coming up with multiple options. Invitation to this meeting was sent to all three commissioners (none are present).

Health Department: Usually what happens is Commissioners get orders from OEPA, then the commissioners start putting pressure on the matter. Do the trustees have to move forward with it? Not as far as Health department is aware of; it is an active discussion and has to be a justifiable need. There are some towns that have major problems. In order to force the township, the commissioners would have to fund the project and get it going. But to get the funding it would normally have to be a collaborative effort. There is no countywide water and sewer district. Outside of Pittsburgh and Rossburg have sewer districts. In Pittsburgh there was a study done and the locals opted out of it and it was not conducted.

Heath Dept.: The feasibility study would consider the areas in the study being part of Union City's sewer system. Need to find out if solutions really are feasible. Just because the study is being done doesn't mean it's going to end up with something feasible. The results of this study are nonbinding.

Twp.: How long does the study take? Mr. Doll: The funding schedule requires that the final report is provided to the OEPA by June-July. Therefore this study is going to be fast-tracked - just about four months. What we'd like to do is start putting together plans, identifying options, make contact with Union City folks, then have another steering committee meeting and get more agencies represented. From there, essentially be able to put together a draft final plan and present to everyone in the committee to make sure we're going in the right direction, getting comments and such. After that, MVRPC would like to hold a public meeting and get information out to these residents to let them know that this plan is available with some recommended solutions. Get those folks in and get their comments on whether they're for or against it. Look at the residents within the study area, at a minimum.

Mr. Doll: How would notice get out to these folks – township newsletter? IBI Group does not have time to knock on all doors, so need to brainstorm some ideas on how to get the word out.

Mr. Doll: From that point, the study is either shelved, or some part of it is taken to the next step and more discussion occurs.

Twp.: Does info from the study stay in-house? Mr. Doll: Will prepare the feasibility study and will provide copies to everybody. Also, to access study information, there is a link on MVRPC's website under the Unsewered Communities Project: <http://mvrpc.org/environment/water/unsewered> Scroll down and click on "Jackson Township".

MVRPC will provide Sandy Denniston, the Jackson Township Fiscal Officer, a copy of these minutes and the sign-in sheet. E-mail address is: sandy_denniston@darke.k12.oh

MVRPC wants to make sure that the township is completely involved and that the study has recommendations that are actionable.

Township stated that this is an agricultural community, no growth. The school has its own septic system. Basically if there are no problems everyone's happy. Health Dept.: But there are known discharges in which septic is going into private and county tile.

Next date for Steering Committee Meeting #2: Monday of April 6, 7:00pm (their township meeting will be held at 8:00 pm). Consider conflict from the city on when their meeting is. Back-up date is April 7th at 7:00pm. *It was confirmed by Ms. Clune (BPS) that Union City's council meeting is the first Monday of each month, so Monday April 6th will be a conflict. Union City's general number to the mayor and utilities: 937.968.4305.*

Mr. Doll will get ahold of Union City and the county folks. By the next meeting, IBI will have a better understanding of the area, the terrain and available options. The Health Department will provide addresses for each of the homes they've identified.

Review of the "what's next" on the agenda. Twp.: Would it help to have a commissioner attend the next meeting? Mr. Doll: Yes. We'd like to have everybody involved attend these meetings.

Twp.: How would billing work? Mr. Doll: If it went through the city, they would bill or county commissioners would bill. They've worked that out with whoever is controlling the sewer district itself. For example, Pittsburgh and the County both take care of the billing (they worked it out amongst themselves). Rossburg pumps to Ansonia. Twp.: Who pays for that? Health Dept.: Believes the county commissioner does the billing.

Twp.: Why didn't Washington Twp. want to be part of this study? MVRPC: They were concerned with costs, and there were some other issues. IBI Group will look into the Hillgrove community as part of the study. Twp.: It would be foolish to run down 571 and stop before then.



Project Name: MVRPC Unsewered Communities Project

Meeting Date: January 19, 2015, Steering Committee #1

Project Number: Jackson Township, Darke County

Meeting Time: 7:00 PM

Meeting Location: Township Hall, 10653 Staudt Road, Union City Ohio

PLEASE SIGN IN

NAME	TITLE / ORGANIZATION	E-MAIL / PHONE	INITIAL
1. Matthew Lindsay	Manager of Environmental Planning, MVRPC	mlindsay@mvrpc.org / (937) 531-6548	
2. Kjirsten Frank Hoppe	Regional Planner II, MVRPC	kfrank.hoppe@mvrpc.org / (937) 531-6548	KFH
3. Keith Doll, P.E.	Project Manager, IBI Group	Keith.Doll@ibigroup.com / (614) 818-4900	KD
4. Maria Borchers	Project Engineer, IBI Group	Maria.Borchers@ibigroup.com / (614)818-4900	MB
5. Nicole Clune, P.E.	Planning Director, Burton Planning Services	nclune@burtonplanning.com / (419)305-0144	NCL
6. Glen Vonderembse	OEPA Surface Water	Glen.vonderembse@epa.ohio.gov / (937) 285-6033	
7. Joe Miller	OEPA Surface Water	Joe.Miller@epa.ohio.gov /	
8. Deborah Roth	OEPA Surface Water	Deborah.Roth@epa.ohio.gov	
9. James P. Surber, P.E., P.S.	Darke County Engineer	dce@earthlink.net	
10. Roberta Mangen	Darke County Health District	Roberta.mangen@odh.ohio.gov / (937) 548-4196 x 203	RM
11. Terry Holman	Darke County Health District	Terrence.Holman@odh.ohio.gov	TH
12. Richard Brooks	Jackson Township Trustee	Brooksfarm4@yahoo.com	RB



NAME	TITLE / ORGANIZATION	E-MAIL / PHONE	INITIAL
13. James Hanes	Jackson Township Trustee	(937) 836-9189	JPH
14. Doug Longfellow	Jackson Township Trustee	(937) 968-6880	DL
15. Sandy Denniston	Jackson Twp Fiscal Office	sandy-denniston@darke.k12.oh 937-459-6359	SD
16. Geoff Holmes	OHIO EPA	geoffrey.holmes@EPA.ohio.gov 937-285-6464	GH
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**Unsewered Communities Project
Steering Committee Meeting Agenda #2**

**Jackson Twp, Darke County, Ohio
April 7, 2015 7:00 pm**

Introductions/Steering Committee Members:

IBI Group / Burton Planning Services:

Keith Doll, P.E., Project Manager
Maria Borchers, Project Engineer
Elvin Pinckney, Planning Director

MVRPC:

Matthew Lindsay, Manager of Environmental Planning

Darke County Engineer:

James P. Surber, P.E., P.S.

Darke County Health Department:

Ms. Roberta Mangen, Director of Environmental Health
Terry Holman, County Health District

Darke County Commissioners:

Ms. Diane L. Delaplane
Mr. Michael W. Rhoades
Mr. Michael E. Stegall

Jackson Township:

Ms. Sandy Denniston, Fiscal Officer
Mr. Richard Brooks, Trustee
Mr. James D. Hanes, Trustee
Mr. Doug Longfellow, Trustee

Village of Union City:

Mr. Scott Stahl, Mayor
Mr. Michael Coning, Council Member
Mr. John Fields, Council Member
Mr. Bradley Horsley, Council Member
Ms. Meta Sue Livingston, Council Member
Mr. Duane Pouder, Council Member
Mr. Zachary Pruitt, Council Member
Mr. Eric Hanna, Utilities Director
Ms. Karen Stubbs, Village Administrator

OEPA Surface Water:

Glen Vonderembse
Joe Miller
Deborah Roth
Geoff Holmes



Project Updates:

We are continuing to evaluate collection and treatment alternatives for the Area. At this time, we do not have final cost estimates to present or a recommended plan.

Have reached out to Union City to determine their interest in accepting wastewater flows from Jackson Township. Their lagoon wastewater plant is near capacity.

We may investigate different collection alternatives including Gravity, STEP Sewers, Grinder Sewers, and Vacuum Sewers. We will also investigate different treatment alternatives including regionalization with Union City and new treatment facilities.

There are options when selecting the collection and treatment alternatives. We intend to present overall project costs, operational & maintenance costs, and present worth evaluations on different scenarios for the purpose of selecting a recommended plan.

We would like to go through the attached Decision Matrix exercise to help us understand Jackson Townships' priorities beyond cost. This includes concerns regarding operation & maintenance, regulatory compliance, control of the system, and schedule.

Other Discussion Items:

Potential property identification for potential treatment facility- if necessary

Typical property costs per acre in Jackson Township for estimating purposes? \$X/acre

Any further developments or potential?

Next Steps:

We would like to have a draft plan with estimates and recommendations for the next Steering Committee meeting and then follow up with a public meeting at your discretion.

Date for next Steering Committee meeting? _____

**Unsewered Communities Project
Steering Committee Meeting #2**

**Jackson Township, Operations Garage
Darke County, Ohio
April 7, 2015 @ 7:00 pm**



Attending: See attached sign-in sheet.

Meeting Minutes:

Matt Lindsay – MVRPC opened the meeting with a few remarks and the purpose of the meeting.

- The engineering team was to share points of their investigation and have questions for the panel of trustees.
- An exercise dealing with design criteria ranking was designed for the panel and included in the handout packet.
- A goal of the meeting was also to talk about the date of the upcoming public meeting.

Matt then turned the meeting over to Keith Doll of IBI Group.

Keith's original plan was to have some conceptual designs of collection and treatment systems, but design alternatives hinged on Union City's desires and comments on the project. Keith learned of some capacity issues with the Union City System and posed a question to the panel.

Also the areas outside of The Union City's Facility Planning Area should be considered for inclusion in the project.

Keith suggested that the group discuss the above with The Union City Administration.

Also suggested that a cluster operation be considered because of the small number (15-20) of homes in pockets and the area is within the SR 208 planning area. A gravity sewer would be very expensive for this type of housing configuration.

The number of properties per area were pointed out on the map.

Question to Roberta Mangen - Darke County Health Department: Is the mobile home trailer park serviced by the city sewer system?

Response: The trailers are serviced.

Keith requested an indexed drawing of the city's collection system from Eric Hanna—UCO Public Service.

Response: Eric could supply the info.

Only one home is serviced along SR 571 along with the trailer park. That home is billed for sewage service. The mobile home park and individual home is serviced with water.

Keith questioned if Union City has discussed the project internally.

Response: Eric Hanna—numerous improvement would have to be made, capacity issues would have to be dealt with.

Keith asked if the city was going through an Infiltration/Inflow reduction process.

Response: Eric Hanna—yes, two more phases to go.

Keith stated that IBI is still in the info gathering phase. His intent is to come to the next meeting with potential layouts and estimated costs.

Moved to the second page of the handout. Union City will be contacted. The different collection alternatives listed will be investigated.

The Darke County Health Department area priorities were discussed. Keith and the team will investigate as per their priority request.

Keith introduced the decision matrix found on p. 3 of the meeting handout.

After discussion of each of the criteria listed in the matrix, the raw score/rank were as follows:

Low cost to customers—1

Future Operation and Maintenance Cost—2

Local Control of System—6

Future Growth of Service Area—5

Time Frame for Completing the Project—4

Minimal Disruption to Customers during Construction—3

Keith stated that at the next meeting he would like to have a draft final report put together for the panel's review.

The report will have system alternatives, possible funding ideas, including an estimated cost per customer. Keith wanted all to understand that even with a full coverage grant for construction, there will be future maintenance costs. The panel anticipated the costs beyond initial construction.

Keith stated that the matrix sets nothing in stone but provides a guide to how IBI proceeds.

Roberta Mangen stated that some residents have been ordered to repair their septic systems but have been told to hold off until the unsewered project/study has been done.

Question from Trustee on normal time frame for the project...

Response from Keith: There are many variables: type of system, type of funding, one year possible for design and application process. The process could take several years.

Question from Trustee on the consideration of growth in the area...

Keith's response: Growth is a factor, but health concerns are more pressing than future growth.

Question from Trustee: Is funding process and permitting process part of IBI /MVRPC work?

Keith's response: IBI is contracted for the initial report. He suggested that a consultant be contacted for help with the permitting and funding process. IBI would love to assist, but that would be a separate project.

Any contracts to be moved forward would be through the county.

Question from trustee to Eric Hanna UCO Public Service: How did sewage system reach capacity with little to no growth in the area?

Response: Plant was designed for 400,000 Gallon/Day, it currently receives 250,000 gal/day .

Eric stated that Inflow/Infiltration raises the levels. His opinion was that to receive more sewage would be ok. Difficulty would be in getting rid of water with the current three lagoons.

Discussion on existing sewer tile at map. It's possible that storm water causes system to reach capacity.

Question from Trustee on Union City Administration being receptive to this project.

Response from Eric Hanna: City Council and Village administrator are not very receptive to the project as of yet.

Keith stated that the cost of construction is mostly on the customers. If any communities desire to tie into Union City's System, the customers would normally be assessed to cover costs.

Keith would welcome assistance from the Trustees on info pertaining to properties that could be used for treatment/discharge. Cheaper properties help decrease the cost of the system.

Question from Matt Lindsay: Does the village still own the old treatment plant?

Response from Trustee: No, now owned by a radio station.

Keith stated that the county will receive a copy of the final report.

Eric Hanna stated that a 126 acre lot is a possible construction site.

Question from Trustee: When is study to be done?

Response from Matt: This July 15, school has been reserved for the public meeting.

June 2: Steering Committee Meeting #3

June 16: Public Meeting

Advertisement to be in the Greenville Paper, The Early Bird, and The News Gazette (circulated in Union City) will be investigated as a possible additional notice publication.

Ms Sandy Denniston offered a conference room in the school for the June 2nd Steering Committee Meeting.

Matt asked for final questions.

Meeting adjourned approximately 7:55 p.m.



Project Name: MVRPC Unsewered Communities Project Meeting Date: April 7, 2015, Steering Committee #2
 Project Number: Jackson Township, Darke County Meeting Time: 7:00 PM
 Meeting Location: Township Hall, 10653 Staudt Road, Union City Ohio

PLEASE SIGN IN

NAME	TITLE / ORGANIZATION	E-MAIL / PHONE	INITIAL
1. Roberta Mungen	Darke Co Health Dept.	ROBERTA.MANGEN@oh.ch.oh.gov 937-548-4196	
2. Keith Doel	IBI Group	KEITH.DOEL@IBI420P.COM 614-818-4900	ED
3. Maria Borchers	IBI Group	MARIA.BORCHERS@IBI GROUP 614-818-4900	MB
4. Eric Hanna	UCO Public Service	EMANUHANA@42000.COM	EH
5. Doug Longfellow	JACKSON TWP	DK Longfellow B BRIGHTNET PC	
6. Sandy Denniston	Jackson Twp - Fiscal Office	SANDY-DENNISTON@DARKE.K12.OH.US 937-459-4359	SD
7. Richard Brooks	Jackson Twp Trustee	brooks Farm 4 @ Yahoo.com	RB
8. Jim Hanes	Jackson Twp	Jimhanes 51 @ Gmail.com	JPH
9. MATT LINDSAY	MVRPC	mlindsay@mvrpc.org	M
10. Geoff Holmes	Ohio EPA	geoffrey.holmes@epa.ohio.gov	GH
11. Edwin Pinckney	BURTON PLANNING SERVICES	EPINCKNEY@BURTONPLANNING.COM	EWJ
12.			

**Unsewered Communities Project
Steering Committee Meeting Agenda #3**

**Jackson Twp, Darke County, Ohio
June 2, 2015 7:00 pm**



Introductions/Steering Committee Members:

IBI Group / Burton Planning Services:

Keith Doll, P.E., Project Manager
Maria Borchers, Project Engineer
Elvin Pinckney, Planning Director

MVRPC:

Matthew Lindsay, Manager of Environmental Planning

Darke County Engineer:

James P. Surber, P.E., P.S.

Darke County Health Department:

Ms. Roberta Mangen, Director of Environmental Health
Terry Holman, County Health District

Darke County Commissioners:

Ms. Diane L. Delaplane
Mr. Michael W. Rhoades
Mr. Michael E. Stegall

Jackson Township:

Ms. Sandy Denniston, Fiscal Officer
Mr. Richard Brooks, Trustee
Mr. James D. Hanes, Trustee
Mr. Doug Longfellow, Trustee

Village of Union City:

Mr. Scott Stahl, Mayor
Mr. Michael Coning, Council Member
Mr. John Fields, Council Member
Mr. Bradley Horsley, Council Member
Ms. Meta Sue Livingston, Council Member
Mr. Duane Pouder, Council Member
Mr. Zachary Pruitt, Council Member
Mr. Eric Hanna, Utilities Director
Ms. Karen Stubbs, Village Administrator

OEPA Surface Water:

Glen Vonderembse
Joe Miller
Deborah Roth
Geoff Holmes

Project Updates:

- We posted a copy of the Final Draft Sewer Feasibility Study online on May 26, 2015 and have brought several copies to tonight's meeting as well. The document can be found online at <http://www.mvrpcunseweredcommunities.com/jackson>
- Hopefully, everyone has had an opportunity to review and develop a list of questions for discussion tonight.
- If revisions are necessary after tonight's meeting, we will address them quickly in preparation of holding a public meeting for presenting to residents.

General Summary of Report and Findings:

- We had evaluated several collection system alternatives including:
 - Gravity Sewers
 - STEP Sewers
 - Grinder Pump Sewers
 - Vacuum Sewers
- We had also evaluated several treatment system alternatives including:
 - Extended Aeration Treatment Plant
 - Lagoon Treatment System
 - Packed Bed Media Treatment System
 - Transporting wastewater to Union City for treatment
- Construction costs and Operation and Maintenance (O&M) costs were developed for each collection and treatment alternative. We then developed a 20-year present value for each possible scenario. Present values are widely used in engineering economics to provide a way to compare costs at different times on a "like to like" basis. It is a present value for a future series of payments which are the O&M costs.
- The alternative with the lowest present value and an adequate amount of land is the construction of a grinder sewer system for all three planning areas with a new lagoon treatment system for planning areas A and C and a new mechanical extended aeration plant for planning area B.

Next Steps:

- Public Meeting
- Upon holding a public meeting and presenting a final report to Jackson Township, Darke County, MVRPC, and Ohio EPA, our portion of the project will be complete. It will then be up Darke County to decide whether or not to pursue funding opportunities and begin engineering design work.
- IBI Group can certainly assist Darke County in these services should you decide to continue moving forward

The table below shows two funding scenarios based on the recommended collection and treatment systems. The upper portions is constant between the two options showing the total number of customers, construction cost, and annual O,M,&R costs.

			OPWC/EPA Loan	RD Grant/Loan
CUSTOMERS/EDUs			196	196
PROJECT COST- Collection System			\$3,440,184	\$3,440,184
PROJECT COST- Treatment System			\$1,631,520	\$1,631,520
TOTAL PROJECT COST			\$5,071,704	\$5,071,704
ANNUAL O,M,&R			\$69,500	\$69,500
FINANCING				
CDBG Formula Grant			\$50,000	\$50,000
Residential Public Infrastructure Grant			\$480,000	\$480,000
OPWC Grant			\$400,000	\$400,000
Unsewered Area Assistance Program			\$250,000	\$250,000
Local Funds - Capacity Fee \$2,000/Customer			\$392,000	\$392,000
Rural Development Grant (up to 35% of Project Cost)			\$0	\$1,775,096
OPWC Loan	30	0.00%	\$800,000	\$800,000
OWDA Loan	30	2.00%	\$0	\$0
OEPA WPCLF Loan	30	0.00%	\$2,699,704	\$0
Rural Development Loan	40	2.75%	\$0	\$924,608
Total Financing			\$5,071,704	\$5,071,704
ANNUAL DEBT				
Annual OPWC Payment			\$26,667	\$26,667
Annual OWDA Payment			\$0	\$0
Annual OEPA WPCLF Payment			\$89,990	\$0
Annual Rural Development Payment			\$0	\$38,400
ANNUAL DEBT PAYMENT			\$116,657	\$65,067
DEBT PAYMENT PER MONTH PER EDU			\$49.60	\$27.66
O,M&R PAYMENT PER MONTH PER EDU			\$29.55	\$29.55
TOTAL PAYMENT PER MONTH PER EDU			\$79.15	\$57.21

**Unsewered Communities Project
Steering Committee Meeting #3**



**Jackson Township, Darke County, Ohio
Mississinawa Valley H.S.
June 2, 2015 @ 7:00 pm**

Attending: See attached sign-in sheet.

Meeting Minutes:

Keith Doll – IBI Group opened the meeting with a thank you and a few remarks then turn the meeting over to Kjrsten Frank Hoppe of MVRPC. She suggested the group go through the Draft Study and ask questions. Responses would come from the project team. The review would be in preparation for the upcoming public meeting to be held June 16, 2015 at the Mississinawa Valley H.S. facility.

Keith presented the Draft Final Plan and reminded the group that it was on the MVRPC website and that six hard copies would be on hand at the upcoming public meeting. The service area previously identified by the Darke County Health District was discussed. The six original service areas were combined into three major areas for purposes of this study. Ref. was made to the exhibit furnished by the IBI Group. Projected flows and future population growth for each area were discussed. Reference was made to the specific section in the report. The sewer systems evaluated were discussed. Gravity, Vacuum, and two pressurized systems, Grinder and STEP were discussed as well as the operating and maintenance cost for each system. The different treatment systems evaluated for each of the three major service areas were 1) Lagoon systems, 2) Extended Aeration systems, 3) Packed Bed Media systems, 4) transporting the waste water to the Village of Union City (Regionalization). Construction estimates were developed for each systems as well as operational and maintenance costs for each. Present worth for each was discussed.

A Grinder sewer system with individualized lagoon treatment systems yielded the least present worth but would not necessarily be the best option for the community. The recommendation from the study was that the Grinder Sewer system with individualized treatment facilities had the lowest present worth but regionalization with Union City may be a less expensive option. Eric Hanna – Public Service rep. for Union City stated that Union City would be open to regionalizing with Jackson Township, but could not afford to fund expansion of their treatment facility. A table in the meeting handout showed estimated project costs as well as estimated annual operation and maintenance costs.

Grant and loan possibilities were shown in the report and discussed in depth. A funding scenario for each area prioritized by the Township could be looked at separately if desired.

Q. If the project was a go, who takes care of securing a loan? County?

A. In this situation, the County Commissioners would have the liability.

Q. Have you (Keith D.) talked to the County Commissioners?

A. I have not talked to them.

Q. What does the average person pay for sewer utility in Union City?

A. Approx. \$53.00/month for sewer, water and trash pickup. Sewer cost is approx.. 20+/month.

Q. Do you think your project costs are pretty accurate?

A. There has been no detailed design, this is a rough estimate but is estimated on the high side with a 10% contingency.

S. If areas are prioritized, phasing based on cost is a possibility.

Q. Does Union City have the room to expand their treatment facility?

A. Eric Hanna – We have plenty of room to expand.

S. Keith D. recommends that further communication with Union City is recommended.

Q. If I have to upgrade my septic system now, how much will it cost?

A. Roberta M. Darke County Health Dist. – Depends on what your soil type is, topography, too many variables to give an estimate.

S. From Fiscal Officer – People need to know what they have and what it would cost to upgrade their existing system.

Q. Will there be any kind of mandate for upgrading the septic systems?

A. If the system is working according to their permit, they are considered OK. If the system is illegally discharging into a stream via a tile, they are required to remedy that situation.

Q. Have you talked to anyone in the Hillgrove area?

A. No. Collection costs do not consider the Hillgrove area.

S. Roberta M. introduced the brochure done for the Wayne Lakes public meeting. She stated that one could be done for the upcoming Jackson County public meeting.

S. Fiscal Officer – It would be nice to have a high and a low estimate for upgrading the present septic systems in the brochure.

Q. If one has a working septic system, do they have to hook-up to the new septic system?

A. Yes, if it's available, residents have to hook-up to it.

Kjirsten F.H. requested a walk-through of the cost of regionalizing with Union City. Keith explained and clarified the sections of the study and will check with Maria Borchert of IBI Group to get additional information.

Q. Is there an estimate of the cost to upgrade the Union City treatment facility?

A. It was not included in the study. It was assumed that all or part of the funds for regionalization would go to Union City for that. Further discussion with Union City would clarify that.

Q. When was Union City's treatment plant built?

A. 1983

S. Township Trustee – Thought the best option was to expand the Union City treatment facility. He thought that having those costs would be helpful.

Q. How will the people find out about the meeting?

A. It's been in the Greenville Paper and also the Early Bird.

Q. Where would you put Lagoons for each area?

A. Ref. was made to exhibits 5-11 pg 69 which showed the locations of the proposed Lagoons.

Q. How did the Wayne Lakes public meeting go?

A. Overall very well. Once the reasons for the project were explained along with a discussion of the new rules from Ohio EPA, those uninformed were informed. Most residents understood the reasons for the project.

Q. Is the public meeting an Open House from 6:00 - 8:00 p.m.?

A. Yes. Generally Matt L. of MVRPC would open the meeting with a 5 min. presentation on the project then turn the meeting over to Keith D. who would explain the types of sewer and treatment options considered with their associated costs. Finance options with a discussion on Grant and Loan possibilities would follow. Questions would be answered/addressed during the discussions. Some meetings have lasted an hour, some 2 hrs.

Two Mics were requested for the upcoming public meeting.

Q. Is the new system from the street to the existing tank or from the street to the house?

A. From the street to the house. Many lines from the house to the tank are bad and have to be replaced.

Q. If this project is a go, How long is the process?

A. Ref. was made to pg. 81 of the Study. If started right away, detailed plans could be done by the end of next year. The longest phase is the finance application process. Construction could start by the end of 2018 and be completed by the end of 2019. Realistically adding 2-3 yrs to that schedule is not out of order.

Q. If the Township decides to start the project, will the Health Dist. Leave the homeowners alone for now?

A. Yes. We would not require an upgrade knowing a sewer system is coming.

Q. What would be the average cost of a hook-up to the sewer system?

A. It would depend on how far the house is from the force main. Work would have to be done by a licensed contractor. The existing tank would have to be properly abandoned. Variables are: What you are digging under, i.e. Driveways, sidewalks, trees, how deep you have to dig, etc.

Q. So each property owner would have to hire a contractor?

A. Yes. There is also a fund through the Residential Infrastructure Grant System (\$100,000) to help qualified low income individuals with funds for their hook-ups. It could be zero cost for some people. It must be applied for and is on a first come first served basis.

Q. Is there usually one or two contractors doing hookups for the new system?

A. The Health Dist. has a list of registered contractors who can do the work.

Q. If you have two houses side by side could they use the same trench for two separate lines to save excavation costs?

A. That is a possibility.

S. Keith D. This is not a final document. More work has to be done as a result of your questions. A revised report will be presented at the upcoming public meeting.

S. Roberta M. will attempt to reach out to one or more County Commissioners to see if they will attend the public meeting.

Q. Could the cost of an individual aeration system be included in the brochure?

A. Yes.



MIAMI VALLEY
Regional Planning Commission



Project Name: MVRPC Unsewered Communities Project
 Project Number: Jackson Township, Darke County
 Meeting Location: Mississinawa Valley HS 1469 OH47 - Union City, Ohio

Meeting Date: June 2, 2015
 Meeting Time: 7:00 - 9:00 p.m.

PLEASE SIGN IN

NAME	ORGANIZATION	STREET ADDRESS
1. Robert Minger	Darke County Health Dept	300 East Ave, Greenville, OH
2. Dave Longkellow	Jackson Twp	11510 Colebrook-Lightsound Rossburg OH40
3. Jim Hanes	Jackson Twp	9136 Stumer Rd. Clinton City, OH
4. Kory Dull	IBI Group	635 BRASSERIE Blvd. WESBORNE, OH 43081
5. Rick Brooks	Jackson Twp	11375 Hillgrove-Ft. Ree. Rd U.P. 45390
6. Geoff Holmes	Ohio EPA	401 East Fifth St Dayton OH 45402
7. Kirsten Frank Hepler	MVRPC	10 A Ludlow St, #700, Dayton OH 45402
8. Samy Deanna	Jackson Twp	744 Pickett Rd, Union City, OH 45390
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JACKSON TOWNSHIP, DARKE COUNTY, OHIO
GENERAL PLAN / SANITARY SEWER FEASIBILITY STUDY
OPEN HOUSE MEETING

JUNE 16TH, 2015 6:00pm – 8:00pm

WELCOME!!!

Thank you for attending today’s public meeting. This meeting is being held to review the draft General Plan Report for the “Unsewered Communities Project” for Jackson Township, Ohio. In locations where on-lot treatment systems (septic systems) no longer provide adequate wastewater treatment, environmental and health agencies are concerned about the potential for pollution from these systems to harm the environment and human health. The Miami Valley Regional Planning Commission (MVRPC) realizes these communities face real challenges in planning solutions for future wastewater treatment. As such, MVRPC has funded a study through an Ohio EPA grant to examine and report on options for Jackson Township. IBI Group was hired to complete the study. **Jackson Township/Darke County is NOT required to act on this report or install a public sewer system at this time as there are NO mandates from the Ohio EPA currently.** Moving forward would be voluntary and proactive on the community’s part as septic systems in the community are past their life expectancy with replacement virtually impossible or extremely expensive with current design standards.

Study Summary:

IBI Group has completed an evaluation comparing four different sewer collection alternatives and four different wastewater treatment alternatives for Jackson Township. These systems include:

Collection Alternatives

- Gravity Sewers
- Septic Tank Effluent Pumps (STEP)
- Grinder Sewers
- Vacuum Sewers

Treatment Alternatives

- Extended Aeration Treatment
- Lagoon Treatment
- Packed Bed Media Filter Treatment
- Connect to Union City

We identified preliminary sewer routes to serve the planning areas; developing construction estimates, Operation & Maintenance cost estimates, and comparing all scenario alternatives based on their Present Worth.

What we find and recommend is constructing a Grinder Pump Sewer System for all of the planning areas and transporting wastewater to the Village of Union City for treatment at their existing plant is the best alternative. Should this treatment option not work, Darke County should construct its own lagoon treatment facility.

The total project cost for constructing grinder pump sewers and force mains to the Village of Union City is estimated at approximately \$3,700,000. The total project cost for constructing grinder pump sewer and a new lagoon treatment facility is estimated to be approximately \$5,300,000.

What are the benefits to me?

- First and foremost, a public sewer system eliminates health risks caused by failing septic systems.
- Cleaning the environment – streams and drainage ways free from pollution
- Eliminating your existing septic tank will provide more usable space in your yard for recreation or building purposes
- Odor elimination
- Cost of future repairs or replacement to your septic system – pumping, blocked leach field tile
- Worry free operation
- Property values increase

If the County constructs a sewer system, will my home have to connect? How much would it cost me?

Generally, if a public sewer is constructed with the ability to serve your property, yes, you would be required to connect. Each homeowner would be required to construct a new sewer lateral or pipe extending from your home to the connection point to the sewer line (typically at the property line) and abandon the existing septic system. This cost will vary from property to property depending on the distance, depth, restoration, and plumbing reconfiguration.

Based on the financial constraints of the service area, we feel that the planning areas are in a good position to receive grants from State and Federal agencies to cover a portion of the construction cost. There may also be funding available on an individual basis to residents meeting income eligibility requirements to help cover the cost of connecting into the sewer. In some cases, this could mean zero dollars out of pocket for some residents.

After each resident makes their initial connection to the sewer system, they would then pay a monthly fee for sewer treatment service. Based on the preliminary funding scenario identified, the average monthly cost per customer would be around \$61 if Union City would treat the wastewater. The average monthly cost per customer if a new lagoon facility is used for treatment would be around \$63.

What are the next steps?

If the County decides to move forward, there are many items that would need to be addressed, including:

- Hire engineering firm to coordinate with funding agencies, survey the area, design the project, and secure EPA permits.
- Continue to keep the public informed
- It may be possible to have the entire system in place and operational by the end of 2019

**Unsewered Communities Project
General Plan Feasibility Study
Public Meeting**



**Jackson Township, Darke County, Ohio
Mississinawa Valley HS
June 16, 2015 @ 6:00 – 8:00 pm**

Attending: See attached sign-in sheet.

Meeting Minutes:

Matt L. – MVRPC opened the meeting with a welcome and introduction to the project team. Matt L. presented the meeting agenda and purpose stating that general questions would be addressed during the presentation and property-specific questions would be addressed after the presentation. It was stated that the Jackson Township area was not under Findings and Orders from Ohio EPA to do anything about sewage management.

Attendees were invited to fill out comment sheets provided to them and either leave them with the project team or take them home and mail them to the IBI Group addressed on the back of the sheet. Actionable comments received would be included in the final edition of the study.

Matt L. presented an overview and purpose of the five-village project then turned the meeting over to Keith D. IBI Group. Keith began with the reference to the 5 hard copies of the study available for the attendees to review and a reminder that the study was available on line via the MVRPC website.

Reference was made to the three previous Steering Committee meetings held earlier this year where information was gathered and discussed. Keith discussed the boundaries of the planning areas provided by the Darke County Health District. The six original areas called out were combined into three basic areas for purposes of this study. Area A, B, and C. (ref. to exhibit in the Study). Each of the areas under study were discussed and explained. Keith explained and discussed the collection alternatives and treatment alternatives considered in the study.

Collection systems considered were: Gravity system, STEP system, Grinder pump system, and Vacuum system.

Treatment systems considered were: Mechanical plant with extended aeration, Packed Bed Media filter system, Lagoon system and regionalizing (transporting wastewater to Union City). Reference was made to the exhibit showing the Lagoon collection area in Union City.

Construction, operation and maintenance costs for each of the systems were explained and discussed as well as the Present Worth analysis used in the Study. The Grinder collection system was found to have the lowest cost. A Lagoon treatment system combined with transporting wastewater to Union City was found to be the lowest cost. It was stated that Union City is now experiencing capacity issues and wouldn't be interested in regionalizing at this time. However, their involvement should be included in the Study. Additional discussions with Union City are warranted because capacity issues could change down the road.

Funding plans for the combined Grinder pump system combined with Lagoon treatment with Union City were discussed.

Q. What is the discharge rate for people in the planning area? \$63.00/month is a big expense for some.

A. Roberta M. – Darke County Health Dist. stated that permit info is available from their office for discharge rates in the area. The Health Dist. is concerned about the improper discharge of sewage.

S. Terrence Holman-Darke County Health Commissioner stated that under current EPA standards, most of the septic systems in the area would not meet the current standards.

Q. Why can't a filter be added to a septic system to improve discharge material?

A. T. Holman – Because Ohio EPA says that it cannot be done under current standards.

Q. Is this a Legislated issue?

A. Yes, it has become a legislated issue.

Q. Could area get easements to properly fix tiles and add filters that are OK under 1977 EPA standards?

A. No, because of newer 2010 discharge standards.

Q. Does the estimated user rates in the study consider future cost hikes? 10yrs., 20yrs. down the road?

A. Keith D. – Costs are based on the life of the loan. In some cases 30yrs., 40yrs., down the road. All construction costs will increase with time.

Size of leech beds under current EPA regulations was discussed. The fact that most of the lots in the Jackson Township area could not support proper septic system design, was brought up. Dr. Holman explained the reason for the rule changes and factors that must be considered when designing a septic system under the current regulations. Dr. Holman stated that one in three residents properly maintain their septic systems in the area. Some homeowners have a pipe going straight to a discharge area with no tank in the system. This situation dictates a need for sewage management.

Q. Was any option considered to repair the existing septic systems?

A. No.

Q. Are the current rules governing septic system replacement, State or Federal?

A. State rules, Ohio EPA. State rules are based on Federal rules.

S. Dr. Holman – The goal is to get the sewage management system designed to do what it's supposed to do and meet current Ohio EPA discharge standards.

Q. What prevents a rule change soon after compliance?

A. We are currently under a 3-5 yr rule review. The last rule review was 40 yrs. ago.

Keith D. Summarized the Study and stated that individual site assessment would happen during the detail design phase of the project. Presently Union City is doing maintenance to their treatment system.

Q. Is the design of the system based on the number of users?

A. Yes.

Q. Is the Union City system capable of handling Jackson Township?

A. Yes. The Study considered the current population with a percentage of future growth. 100 gal per capita per day.

Q. When would the project be completed if we gave it the OK?

A. If it started now, a project could be completed in four or five years.

Q. What does the community do if the County says our individual systems are not up to code?

A. It's possible the community would be forced into compliance if Ohio EPA issued a Findings and Orders. Roberta M. stated that the County Health Dist. does not want to force property owners to fix illegal septic systems if the community is going to a public sewer system.

S. Keith D. – Cost estimates for operation and maintenance in the Study are on the high side, intentionally so that the report presents a conservative estimate of future costs.

Q. 1977, 2010, 2015 rule changes have occurred. Will we see another rule change in the near future?

A. One is not anticipated.

Q. What happens to our submitted comments? Do they become part of the public record?

A. Yes. Actionable comments will be included in the report and subsequently will get to your Township Trustees and County Commissioners.

Q. I'm assuming each of the three areas, A, B, and C, will have their own collection pipes?

A. Yes, there is no collection system now.

At 7:20 p.m. Matt L. Invited attendees to ask property-specific questions to the team member of their choice stationed across the front of the room.

Q. If your septic system is functioning properly, will you have to hook into a public sewer system?

A. Dr. Holman – It depends on the age of the system. If it is only a few years old, probably not. If the system is 15-20 yrs old, yes. The County code states that if you are within 200' of a sewer system and your septic system is not relatively new, you are required to connect to the sewer. Those tie-ins that come in after the majority of the customers do, will typically be charged a higher rate.

S. Fiscal Officer – Reminded the group that a cost sharing is possible for those adjacent residents who can split the cost of trenching. One trench for two collection pipes.

S. Keith D. – The Hillgrove area was not included in the Study. If they were included, the number of total homes would increase thereby decreasing the debt payment/person. They were included for the flow calculation in the study.

Q. What was the reason for omitting the Hillgrove area?

A. The Washington Township Trustees were not interested in participating in the Study.

Q. What was the amortization schedule for the loans?

A. Reference was made to the Study Pgs. 78-80.

S. Dr. Holman – 70% of the soils in the area are not sufficient to be used for a leech bed under current EPA standards.

Q. Why didn't the neighboring Townships have this Study done for them?

A. Both Washington and Jackson Townships were invited to participate in the Study but only Washington Township declined.

Q. Will Washington Township have to tie-in to a potential Jackson Township sewer?

A. It will be up to the new sewer district to allow a tie-in. Washington Township will have to pay Jackson Township for tie-in fees. A Township sewer district cannot be forced by a County Health District or EPA to accept tap-ins from outside of the District.

Q. How do Township sewer districts get created?

A. The County Commissioners have to create the sewer districts.

S. Keith D. – County Commissioners can dictate what areas can be included in a given sewer district.

Q. Would that make it cheaper for the user?

A. Yes. The more users, the less cost per user.

Keith went over the cost/customer for each planning area, explaining that the closer the homes were to Union City, (as a collection site), the lower the cost of construction due to the length of pipe needed. He also talked briefly about phasing the construction over time for the three planning areas based on the priority established for each area. Keith recommended that the total cost be shared by all users rather than a graduated scale based on pipe length cost. Ultimately that decision would be up to the newly established sewer district.

7:20 p.m. – Attendees broke into groups – some talked to Keith D. some spoke with Dr. Holman, some with Roberta M. some with Matt L. and some among themselves.

Session ended at 8:00 p.m.



MIAMI VALLEY
Regional Planning Commission



Project Name: General Plan/Sanitary Sewer Feasibility Study

Meeting Date: June 16, 2015

Project Number: Jackson Township, Darke County

Meeting Time: 6:00 - 8:00 p.m.

Meeting Location: Mississinawa Valley H.S. 1469 OH47-Union City, Ohio

PLEASE SIGN IN

NAME	ORGANIZATION	STREET ADDRESS
1. Maria Bachers	IBI Group	635 Brookside Blvd. Westerville OH
2. Kern Dan	IBI Group	635 Brookside Blvd. Westerville, OH 43081
3. Jim Hanes	Temp	9136 Stoner Rd. U.C. OH 45390
4. Eric Hinn	UNION CITY	419 E. Elm St. U.C. OH 45390
5. PETER THORANO	uc Jackson	750 S R 521 W U.C. 45390
6. Geoff Holmes	OHIO EPA	401 East Fifth St. Dayton OH 45402
7. John Burch		420 ST. Rte. 571 Union City, OH 45390
8. John Desmond		1267 Zumbro Union City, OH
9. Sand Bennett	Jackson Twp	744 Pickett Rd., U.C., OH
10. Dennis Ponder		9363 North Rd. U.C. OH
11.		
12.		



MIAMI VALLEY
Regional Planning Commission



Project Name: General Plan/Sanitary Sewer Feasibility Study

Meeting Date: June 16, 2015

Meeting Time: 6:00 - 8:00 p.m.

Project Number: Jackson Township, Darke County

Meeting Location: Mississinawa Valley H.S. 1469 OH47-Union City, Ohio

PLEASE SIGN IN

NAME	ORGANIZATION	STREET ADDRESS
1. Jeff Young		10312 State St Union City Ohio
2. WILLIAM KISSINGER		10103 ARMOLD RD UNION CITY
3. Paul Plankenkober		760 ST. RT. 571 Union City, OH
4. Clem Shimp		412 ST RT 571 UCO
5. Ed Boldman		356 Pickett View
6. Doug Conzelmann	TRUSTEE	
7. Paul Bamber	Trustee	
8. V. A. Holman	Health Dept	300 East Greenville OH
9. Scott Stahl	Mayor Union City, Ohio	419 East Elm V.C.O. 45390
10. Roberta Meyer	Darke County Health Dept	300 Gars Ave Greenville OH
11. Floris Pinckney	Burton Planning Svs.	252 Electric Ave, Westerville, OH
12. MAT LINDSAY	MVRPC	



MIAMI VALLEY
Regional Planning Commission



	NAME	ORGANIZATION	STREET ADDRESS
13.	<i>Chester Jordan</i>		<i>9355 Worth Rd U.C. Oria</i>
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27.			

Public Meeting Pictures



PUBLIC PARTICIPATION MEETING

TO REVIEW THE *GENERAL PLAN REPORT* FOR “UNSEWERED COMMUNITIES PROJECT” FOR JACKSON TOWNSHIP, OHIO

WHEN:

Tuesday, June 16, 2015

WHERE:

Mississinawa Valley Schools
1469 Ohio 47
Union City, Ohio 45390

TIME:

6:00 p.m. - 8:00 p.m.

The meeting will be held to review the *General Plan Report* for the “Unsewered Communities Project” for Jackson Township, Ohio. In locations where these systems no longer provide adequate wastewater treatment, environmental and health agencies are concerned about the potential for pollution from these systems to harm the environment and human health.

The Miami Valley Regional Planning Commission (MVRPC) realizes these communities face real challenges in planning solutions for future wastewater treatment. Therefore, MVRPC is spearheading the “Unsewered Communities Project” to examine and report on the options for these communities to improve wastewater systems and protect the environment. A public meeting will provide the residents and property owners in Jackson Township an opportunity to review the *General Plan Report*.



MIAMI VALLEY

Regional Planning Commission



For additional information, contact Matt Lindsay, Manager of Environmental Planning, at 937.223.6323 or mlindsay@mvrpc.org



SESIÓN DE PARTICIPACIÓN PÚBLICA

PARA ANALIZAR EL INFORME DEL PLAN GENERAL DEL PROYECTO PARA COMUNIDADES SIN ALCANTARILLADO (UNSEWERED COMMUNITIES PROJECT) EN JACKSON TOWNSHIP, OHIO

CUANDO:

Martes, 16 de Junio, 2015

DONDE:

Mississinawa Valley Schools
1469 Ohio 47
Union City, Ohio 45390

HORA:

6:00 p.m. - 8:00 p.m.

Se realizará una reunión para revisar el informe del plan general para el “proyecto de las comunidades sin alcantarillado” para Jackson Township, Ohio. Hay lugares donde estos sistemas ya no le proporcionan el tratamiento adecuado a las aguas residuales y las autoridades de salud y del medio ambiente temen que la polución de estos sistemas pueda perjudicar el medio ambiente o la salud pública.

Miami Valley Regional Planning Commission sabe y entiende que estas comunidades enfrentan verdaderos retos preparando soluciones para el tratamiento de aguas residuales en el futuro. Por lo tanto, MVRPC está en la vanguardia al dirigir el “Proyecto para Comunidades Sin Alcantarillado” para examinar y presentar un informe sobre las opciones que estas comunidades tienen para mejorar los sistemas de tratamiento de aguas residuales y proteger el medio ambiente. El informe del Plan General identificará soluciones factibles y se usará para empezar a identificar y facilitar los proyectos del futuro.



MIAMI VALLEY

Regional Planning Commission



Para más información, contacte a Matt Lindsay, Manager of Environmental Planning, mlindsay@mvrpc.org o llame al (937) 223-6323





NEWS RELEASE

For Immediate Release

Date: May 26, 2015

Contact: Laura A. Loges
Miami Valley Regional Planning Commission
937.223.6323, Extension 6535
lloges@mvrpc.org

Subject: Public Participation Meeting to be Held to review the General Plan Report for Unsewered Communities Project for Jackson Township.

Dayton OH – The Miami Valley is dotted with small communities with pockets of areas served by septic systems. In locations where these systems no longer provide adequate wastewater treatment, environmental and health agencies are concerned about the potential for pollution from these systems to harm the environment and human health.

The Miami Valley Regional Planning Commission (MVRPC) realizes these communities face real challenges in planning solutions for future wastewater treatment. Therefore, MVRPC is spearheading the “Unsewered Communities Project” to examine and report on the options for these communities to improve wastewater systems and protect the environment. The General Plan report will identify actionable solutions and lay the groundwork for future projects.

A public meeting will provide the residents and property owners in Jackson Township an opportunity to review the General Plan report.

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Mississinawa Valley Schools
1469 Ohio 47
Union City, Ohio 45390
6:00 p.m. – 8:00 p.m.

“The "Unsewered Communities Project" will evaluate the specific problems and needs of each participating community to develop customized wastewater treatment options in the form of a General Plan,” said MVRPC’s Executive Director, Brian O. Martin, AICP.

If you are unable to attend the meeting, the General Plan report will also be available for public review on MVRPC’s web site at www.mvrpc.org/environment/WaterQualityManagement/ on or before May 26, 2015. You can also review the list at the MVRPC offices, 10 N. Ludlow Street, Suite 700, Dayton, OH, 45402, during regular business hours (8:00 a.m. – 5:00 p.m., Monday through Friday). Written comments will be accepted through June 25, 2015 at the above address or via e-mail to Matt Lindsay, Manager of Environmental Planning, at mlindsay@mvrpc.org.

At all MVRPC public participation meetings, interpreters for hearing impaired individuals or bi-lingual interpreters are available upon request. Requests should be made at least one week prior to the meeting date. Contact MVRPC at (937) 223-6323 or 1-800-750-0750 TTY/TDD to request an interpreter.

Established in 1964, the Miami Valley Regional Planning Commission promotes collaboration among communities, stakeholders, and residents to advance regional priorities. MVRPC is a forum and resource where the Board of Directors identifies priorities, develops public policy and collaborative strategies to improve quality of life throughout the Miami Valley Region. MVRPC performs various regional planning activities, including air quality, water quality, transportation, land use, research and GIS. As the designated Metropolitan Planning Organization (MPO), MVRPC is responsible for transportation planning in Greene, Miami and Montgomery Counties and parts of northern Warren County. MVRPC's area wide water quality planning designation encompasses five (5) counties: Darke, Preble plus the three MPO counties.

For additional information, contact Matt Lindsay, Manager of Environmental Planning, at (937) 223-6323 or via the e-mail address listed above.

###

Affidavit of Publication

STATE OF OHIO } SS
COUNTY OF DARKE }

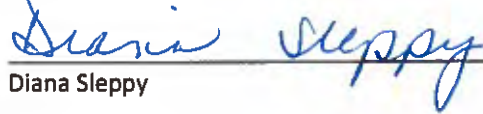
Diana Sleppy, being duly sworn, says:

That she is of the Daily Advocate, a daily newspaper of general circulation, printed and published in Greenville, DARKE County, OHIO; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

June 2, 2015

That said newspaper was regularly issued and circulated on those dates.

SIGNED:


Diana Sleppy

Subscribed to and sworn to me this 2ND day of June, 2015.



Teresa S. Ketring, Notary Public,
State of Ohio,
DARKE County, OHIO
My commission expires: April 1, 2019.



Teresa S. Ketring
Notary Public-State of Ohio
My Comm. Exp. Apr. 1, 2019

40000705 40740203 9375316528

LAURA HENRY
MIAMI VALLEY REGIONAL PLAN. COMM
10 NORTH LUDLOW ST, SUITE 700
DAYTON, OH 45402

\$201.00

PUBLIC NOTICE
Public Participation Meeting to be Held to review the General Plan Report for Unsewered Communities Project for Jackson Township.

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40740203
6/2/2015 1T

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JUN - 3 2015
BY: 

Miami Regional Planning Commission

To: The News Gazette

Randolph County, Indiana

P O. Box 429

Winchester, IN 47394

Legal# 9816

PUBLISHER'S CLAIM

COPY OF
ADVERTISE
MENT
HERE

LINE COUNT

Display Master (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set) -- number of equivalent lines _____

Head -- number of lines _____

Body -- number of lines _____

Tail -- number of lines _____

Total number of lines in notice _____

108

108

COMPUTATION OF CHARGES

54 lines 2 columns wide equals 108 equivalent lines at .4026 cents per line _____

\$43.48

Additional charges for notices containing rule or tabular work (50 per cent of above amount) _____

Charge for extra proofs of publication (\$1.00 for each proof in excess of two) _____

TOTAL AMOUNT OF CLAIM _____

\$43.48

DATA FOR COMPUTING COST

Width of single column in picas _____

9.67

Size of type 7 point

Number of insertions _____

1

Pursuant to the provisions and penalties of IC 5-11-10-1, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

I also certify that the printed matter attached hereto is a true copy, of the same column width and type size, which was duly published in said paper 1 time(s). The dates of publication being as follows:

June 2, 2015

Additionally, the statement checked below is true and correct:

Newspaper does not have a Web site.

Newspaper has a Web site and this public notice was posted on the same day as it was published in the newspaper.

Newspaper has a Web site, but due to technical problem or error, public notice was posted on _____

Newspaper has a Web site but refuses to post the public notice.

Date

6-8-15

Title: Legal Manager

Diane L. Jacka

LEGALS

**PUBLIC NOTICE
PUBLIC PARTICIPATION MEETING TO BE HELD TO REVIEW THE
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**TUESDAY, JUNE 16, 2015
MISSINIWA VALLEY SCHOOLS
1489 OHIO 47
UNION CITY, OHIO 45390
8:00 P.M. - 8:00 P.M.**

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If you are unable to attend the meeting, the General Plan report will be available for public view on MVRPC's web site at www.mvrpc.org/environment/WaterQualityManagement/ on or before May 28th, 2015. You can also review the list at MVRPC offices, 10 N. Ludlow Street, Suite 700, Dayton, OH, 45402, during regular business hours (8:00 a.m.-5:00 p.m., Monday through Friday). Written comments will be accepted through June 25, 2015 at the above address or via e-mail to Matt Lindsay, Manager of Environmental Planning, at mlindsay@mvrpc.org.

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For additional information, contact Matt Lindsay, Manager of Environmental Manager of Environmental Planning, at (937)223-6323 or via e-mail address listed above.

**LEGAL 9816 1T, 6-02-15
hspaxp**

PUBLIC NOTICE

Se realizará una Reunión de Participación Pública para analizar el Informe del Plan General del Proyecto para Comunidades Sin Alcantarillado (Unsewered Communities Project) en Jackson Township.

El Valle del Río Miami (Miami Valley) tiene muchas comunidades asistidas pequeñas que tienen áreas apartadas donde se usan los sistemas sépticos. Hay lugares donde estos sistemas ya no le proporcionan el tratamiento adecuado a las aguas residuales y las autoridades de salud y del medio ambiente temen que la polución de estos sistemas pueda perjudicar el medio ambiente o la salud pública.

Miami Valley Regional Planning Commission (MVRPC, por sus siglas en inglés) sabe y entiende que estas comunidades enfrentan verdaderos retos preparando soluciones para el tratamiento de aguas residuales en el futuro. Por lo tanto, MVRPC está en la vanguardia al dirigir el "Proyecto para Comunidades Sin Alcantarillado" para examinar y presentar un informe sobre las opciones que estas comunidades tienen para mejorar los sistemas de tratamiento de aguas residuales y proteger el medio ambiente. El informe del Plan General identificará soluciones factibles y se usará para empezar a identificar y facilitar los proyectos del futuro.

Una reunión pública le brindará a los residentes y propietarios de Jackson Township la oportunidad de ver y revisar el informe del plan general.

La reunión se realizará el:

**Martes, 16 de junio, 2015 • Mississinawa Valley Schools
1469 Ohio 47, Union City, Ohio 45390**

6:00 p.m. - 8:00 p.m.

"El 'Proyecto para Comunidades Sin Alcantarillado' evaluará las necesidades y problemas específicos de cada comunidad participante para desarrollar opciones de tratamiento de aguas residuales que estén diseñadas específicamente para cada comunidad y que se presentarán en un Plan General," dijo el Director Ejecutivo, Brian O. Martin, AICP.

Si usted no puede asistir a la reunión, el informe del Plan General también estará disponible al público en el sitio Web de MVRPC en www.mvrpc.org/environment/WaterQualityManagement/ el o antes del 26 de mayo, 2015. También encontrará la lista en las oficinas de MVRPC, 10 N. Ludlow Street, Suite 700, Dayton, OH, 45402, durante el horario regular de oficina (8:00 a.m. - 5:00 p.m., lunes a viernes). Se aceptarán comentarios por escrito hasta el 25 de junio, enviados a la dirección anterior o por correo electrónico a mlindsay@mvrpc.org.

En todas las reuniones de participación pública de MVRPC, se pueden solicitar intérpretes para las personas con dificultades auditivas o para las personas que no hablan inglés. Las solicitudes se deben hacer por lo menos una semana antes de la fecha de la reunión. Comuníquese con MVRPC al (937) 223-6323 o 1-800-750-0750 TTY/TDD para solicitar un intérprete.

Para más información, comuníquese con Matt Lindsay, Manager of Environmental Planning, al (937) 223-6323 o al correo electrónico listado anteriormente.

PUBLIC NOTICE

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MIAMI VALLEY

Regional Planning Commission

in will be held on the 9th day
a.m. In the Probate Court of
Garst Avenue, Greenville, Ohio

GREENVILLE

a City of Greenville, Ohio
legislation:
transfer

deposit placement

approve participation
Police Department for
perials

authorize the disposition
personal property

approval of Darke
management plan update

be read and examined
office of the City Auditor,
al Building, Greenville,
hours of 8:00 A.M. and
through Thursday and
M. on Friday.

Harris, Clerk Approved:
Greenville City Council
Eric Brand, Law Director

NATIONAL BANK

vs.
**HEIRS, CREDITORS
, LEGATEES,
, EXECUTORS AND
WETH L. BLACKBURN,
ISED et al.**

s, Creditors, Devisees,
ators, Executors and As-
Blackburn, Deceased,
residence is unknown,
place of residence is un-
e that on May 22, 2015,
Bank filed its Complaint
ase No. 15-CV-00238 in
Pleas of Darke County,
y, Second Floor Court-
lio 45331, seeking fore-
g that Defendant(s) the
ditors, Devisees, Laga-
Executors and Assigns
urn, Deceased, have or
st in the real estate de-

of Ohio, in the county of
age of Ansonia and more
d, viz: Being Lot Num-
Fifty Eight and formerly
18 in Omer D. Hender-
Brown Township, Darke

3-23-04-02-12100.

med above are required
ays of the date of the last
rice

bank
sq.
ntiff
h Street
45331

ning & Zoning Department, 100 Public Square, Greenville, Ohio 45331,
c/o Janelle Cross. Prospective Bidders may examine the Bidding Docu-
ments at the Issuing Office on Mondays through Thursdays between the
hours of 8:00 a.m. and 4:30 p.m., or Fridays between the hours of 8:00
a.m. and 1:00 p.m., and may obtain copies of the Bidding Documents from
the Issuing Office as described below. Bidding Documents also may be
examined online at www.cityofgreenville.org

Printed copies of the Bidding Documents may be obtained from the Issu-
ing Office, during the hours indicated above, upon non-refundable pay-
ment of \$57.00 for each set. Checks for Bidding Documents shall be
payable to "City of Greenville". Upon request and receipt of the document
payment indicated above plus shipping account number, the Issuing Of-
fice will transmit the Bidding Documents via delivery service. The date
that the Bidding Documents are transmitted by the Issuing Office will be
considered the Bidder's date of receipt of the Bidding Documents. Nei-
ther Owner nor Engineer will be responsible for full or partial sets of Bid-
ding Documents, including Addenda if any, obtained from sources other
than the Issuing Office. Bids will be accepted only from Plan holders who
have purchased plans and specifications from the City of Greenville for
this project.

Bid security shall be furnished in accordance with the Instructions to Bid-
ders.

Bidders shall submit proof of qualifications to perform the Work as de-
scribed in the Instructions to Bidders.

The City of Greenville is an Equal Opportunity Employer M/F
5/31, 6/7 2T

PUBLIC NOTICE

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listed above.**

Marion's PIAZZA

RANKED #1 IN THE NATION

From Today Magazine, October 2012



Voted Dayton's best pizza in 36 local surveys!

**SERVING DAYTON'S
BEST PIZZA
SINCE 1965**

Marion's Piazza Sells Over One Million Pizzas Yearly

9 DAYTON AREA LOCATIONS

*Delicious Pizza • Hearty Sandwiches • Savory Pastas
Crisp Salads • Draft Beer • Domestic Wines*

VISIT MarionPiazza.com FOR MENU ITEMS, LOCATIONS AND MORE

PUBLIC PARTICIPATION MEETING

TO REVIEW THE GENERAL
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JACKSON TOWNSHIP, OHIO

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MIAMI VALLEY
Regional Planning Commission

For additional
information,
call 937.223.6323
or visit mvrpc.org

Continued from page 8

DEBATE FORUM QUESTION OF THE WEEK:

Should states enact legislation mandating that people use the bathroom facility specific to their biological sex?

The porcelain predicament

RESPONSE BY TONY BAKER

Somebody once told

me, "Tony, you don't have the right not to be uncomfortable."

The situation that elicited this comment had nothing whatsoever to do with the debate over restroom etiquette currently raging in the halls of... well, at least a few government buildings somewhere out west, one supposes. It certainly had nothing to do with the question of whether such issues should be decided by Congress and subsequently codified by law. (Although, if we're going to start legislating the sorts of demeaning fallacious and even get up to write in a public restroom, I've got a few matters that I'd personally like to see addressed, most having to do with one and the ability, or lack thereof, of many of my fellow citizens to clean up after themselves.)

I think the point speaks to the roots of the current controversy just the same, however. Your average Tom, Dick or Harry—especially in the Midwest or southwestern states, and most especially in rural areas, where tolerance of those who are different is all too often in short supply—is going to be at least somewhat discomforted by the sight of someone who doesn't fit their deep-seated preconceptions about masculinity and femininity straddling into the men's or ladies' rooms of the local watering hole. Heck, young men in the '60s used to get their butts kicked for having long hair, let alone challenging society's fundamental assumptions about their sexuality and gender.

But here's the thing, folks: Laws exist to protect people's rights, not to single out a group of people and deny them a right. And even if the thought of a transgendered person sharing a restroom, or even a locker room at the gym with you makes you uncomfortable, the simple fact remains that you're not in any danger at all. Your rights are not being infringed upon. Your sensibilities, perhaps, but not your rights.

Nah, I could talk about the frighteningly high suicide rates among gay, lesbian and transgendered people at this point, and how, given those numbers, it seems reasonably likely that we, the heterosexual and cisgender folk of the world, pose a far greater threat to our LGBTQ brothers and sisters than they could ever pose to us. I could compare the current debate over Restroom Sanity to the "Whites Only" bathroom and water fountains of decades past. But instead I'm going to take a different tack and talk about something else.

As a liberal, I'm usually the first to jump up in defense of what many on the right disdainfully call "Political Correctness"... or as more civilized people call it, "Not being a jerk." But even I can't help but wonder if our culture's obsession with "trigger words"

and other inflammatory language hasn't resulted in a climate where people think they have the God-given right not to be offended. We need to reexamine behavior that threatened the very foundations of a civilized society: stuff like racism, rape, theft and so on. Now, it seems, we don't want anyone to be able to say anything, do anything, or wear anything, or be anything that challenges our ever-mutable sensibilities.

Restrooms make their employees sweat up facial piercings with Band Aids or strips of masking tape (if that looks any less ridiculous). Schools threaten weak students with expulsion for wearing beards. You can't walk into some places of business if you're wearing a hooded sweatshirt. And now, certain lawmakers would have you threatened with a \$1,000 fine and a year in jail for walking into a public restroom, not knowing "terminus" enough, and consequently giving some middle-aged schoolbus driver the business a right.

"[L]aws exist to protect people's rights, not to single out a group of people and deny them a right."
Click or Drag to Zoom

And let's face it: This has everything to do with how people look. In a world where many women wear their hair short, have petite builds and prefer an Avengers T-shirt and blue jeans to the standard dress and heels ensemble, you can't base assumptions about gender entirely on a person's physical endowments, or on how that person is dressed. And if a transgendered person was skilled, arguably talented or genetically gifted enough to pass flawlessly for a person of their preferred, rather than socially assigned, gender, there wouldn't be an issue, as no one sharing a restroom with him (or her) would ever know the difference.

The last time I checked, most ladies' rooms were stalls-only (That's a figure of speech, of course; I haven't ever actually checked, but you know what I'm getting at.) This means that few women will ever face the indignity of inadvertently catching a glimpse of a transgendered woman's "equipment" (Alan.) And even if the average transgendered woman were included—on, if lawmakers in the progressive states that in Nevada have their way, compelled to not only use the men's room, but the urinals as well, the most offensive thing a man standing next to her might get a glimpse of is the aforementioned equipment she was perhaps erroneously assigned with at birth. Since it most likely wouldn't be the first time his eyes have been mesmerized by such a sight, it must be the dress, rather than the equipment, that is an offensive to him.

Think about that.



Reach DCF freelance writer Tony Baker at tonybaker@freemove.com.

NEWS

RECENT NEWS

MVRPC Launches Redesigned and Reorganized Website

Dateline:
May 26, 2015
MVRPC is excited to announce the launch of our redesigned and reorganized website featuring our new logo and colors.

Win a Prize Pack of Battery-Powered Yard Equipment

Dateline:
May 26, 2015
Register to Win a Prize Pack of Battery-Powered Yard Equipment Courtesy of the Miami Valley Regional Planning Commission's Air Quality Awareness Program

Unsewered Communities Project for Jackson Twp., Darke County, Ohio

Dateline:
May 26, 2015
A public meeting will be held June 16, 2015, 6pm - 8pm, at Mississinawa Valley Schools

Unsewered Communities Project for Jackson Twp., Darke County, Ohio

Tuesday, May 26th, 2015



Dayton OH – The Miami Valley is dotted with small communities with pockets of areas served by septic systems. In locations where these systems no longer provide adequate wastewater treatment, environmental and health agencies are concerned about the potential for pollution from these systems to harm the environment and human health.

The Miami Valley Regional Planning Commission (MVRPC) realizes these communities face real challenges in planning solutions for future wastewater treatment. Therefore, MVRPC is spearheading the "Unsewered Communities Project" to examine and report on the options for these communities to improve wastewater systems and protect the environment. The General Plan report will identify actionable solutions and lay the groundwork for future projects

A public meeting will provide the residents and property owners in Jackson Township an opportunity to [review the General Plan report](#)

The meeting will be held as follows:

Tuesday, June 16, 2015
 Mississinawa Valley Schools
 1469 Ohio 47

CALENDAR OF EVENTS

← MAY 2015 →						
S	M	T	W	T	F	S
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

UPCOMING EVENTS

Public Participation Meeting - Unsewered Communities Project for Wayne Lakes

Saturday, May 30th, 2015
 On May 30, 2015, a public meeting will provide property owners in Wayne Lakes an opportunity to review the Draft report

Public Participation Meeting - DRAFT Bikeways Plan Update

Wednesday, June 3rd, 2015
 On Wednesday, June 3, 2015 a public meeting will be held to review the draft plan document and info.

UNSEWERED COMMUNITIES

HOME // ENVIRONMENT // WATER QUALITY MANAGEMENT // UNSEWERED COMMUNITIES

Air Quality ↓

Water Quality Management ↑

Areawide Water Quality Management Plan ↓

Unsewered Communities

Water Quality Criteria

View

Edit

Revisions

Log

The Miami Valley is dotted with small communities with pockets of residences and businesses served by septic systems. In locations where these systems no longer provide adequate wastewater treatment, water surveys and samples collected by DEPA have documented the presence of E.coli bacteria, which is the principal organism used to detect the presence of fecal pollution (human, solid waste) in drainage ditches and tributaries to our creeks and rivers.

In some places, there may not be enough physical space to build septic systems to modern specifications. In other places, there may not be the resources to construct adequate community-scale treatment works, nor the projected future customer base to keep such treatment works viable. The purpose of the "Unsewered Communities Project" is to examine and report on the options for these communities where on-site treatment is failing to protect human health and the environment. The reports will identify actionable solutions and lay the groundwork for future projects

JACKSON TWP. (DARKE COUTNY) DRAFT SEWER STUDY

The Miami Valley Regional Planning Commission has contracted with IBI Group to complete a feasibility study for wastewater collection and treatment alternatives for the Jackson Township in Darke County. Jackson Township is located in the Northwest quadrant of Darke County. This unincorporated portion of the township are just outside to the East and South of Union City. The area of interest has approximately 163 homes.

The Draft study is available to review as a 2 part download. (Part 1 - Part 2). A public participation meeting will be held on Tuesday, June 16, 2015, at Mississinawa Valley Schools, 1469 Ohio 47, Union City, Ohio, 6:00 p.m. – 8:00 p.m.

Public comments on the Draft study are being accepted through May 26. Add your comments or view more information at

NEWS

VIEW ALL

MVRPC Launches Redesigned and Reorganized Website



Dateline: May 26, 2015
MVRPC is excited to announce the launch of our redesigned and reorganized website featuring our new logo and colors.

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Unsewered Communities Project for Jackson Twp., Darke County, Ohio



Dateline: May 26, 2015
A public meeting will be held June 16, 2015, 6pm - 8pm, at Mississinawa Valley Schools.

TO: Interested Agencies & Organizations

FROM: Brian O. Martin, AICP, Executive Director

DATE: May 26, 2015

RE: Public Participation Meeting to be Held to review the General Plan Report for Unsewered Communities Project for Glenwood Area of Preble County, Ohio

The Miami Valley is dotted with small communities with pockets of areas served by septic systems. In locations where these systems no longer provide adequate wastewater treatment, environmental and health agencies are concerned about the potential for pollution from these systems to harm the environment and human health.

The Miami Valley Regional Planning Commission (MVRPC) realizes these communities face real challenges in planning solutions for future wastewater treatment. Therefore, MVRPC is spearheading the “Unsewered Communities Project” to examine and report on the options for these communities to improve wastewater systems and protect the environment. The General Plan report will identify actionable solutions and lay the groundwork for future projects.

A public meeting will provide the residents and property owners in Jackson Township an opportunity to review the General Plan report.

The meeting will be held as follows:

Tuesday, June 16, 2015

Mississinawa Valley Schools

1469 Ohio 47

Union City, Ohio 45390

6:00 p.m. – 8:00 p.m.

“The "Unsewered Communities Project" will evaluate the specific problems and needs of each participating community to develop customized wastewater treatment options in the form of a General Plan,” said MVRPC’s Executive Director, Brian O. Martin, AICP.

If you are unable to attend the meeting, the General Plan report will also be available for public review on MVRPC’s web site at www.mvrpc.org/environment/WaterQualityManagement/ on or before May 26, 2015. You can also review the list at the MVRPC offices, 10 N. Ludlow Street, Suite 700, Dayton, OH, 45402, during regular business hours (8:00 a.m. – 5:00 p.m., Monday through Friday). Written comments will be accepted through June 25, 2015 at the above address or via e-mail to Matt Lindsay, Manager of Environmental Planning, at mlindsay@mvrpc.org.

At all MVRPC public participation meetings, interpreters for hearing impaired individuals or bi-lingual interpreters are available upon request. Requests should be made at least one week prior to the meeting date. Contact MVRPC at (937) 223-6323 or 1-800-750-0750 TTY/TDD to request an interpreter.

Established in 1964, the Miami Valley Regional Planning Commission promotes collaboration among communities, stakeholders, and residents to advance regional priorities. MVRPC is a forum and resource where the Board of Directors identifies priorities, develops public policy and collaborative strategies to improve quality of life throughout the Miami Valley Region. MVRPC performs various regional planning activities, including air quality, water quality, transportation, land use, research and GIS. As the designated Metropolitan Planning Organization (MPO), MVRPC is responsible for transportation planning in Greene, Miami and Montgomery Counties and parts of northern Warren County. MVRPC’s area wide water quality planning designation encompasses five (5) counties: Darke, Preble plus the three MPO counties.

For additional information, contact Matt Lindsay, Manager of Environmental Planning, at (937) 223-6323 or via the e-mail address listed above.

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May 26, 2015

To Whom It May Concern:

Our agency would like the libraries to make this letter available to citizens who may request it. In addition, please post the enclosed poster in a highly visible area to help advertise the meeting.

The Miami Valley is dotted with small communities with pockets of areas served by septic systems. In locations where these systems no longer provide adequate wastewater treatment, environmental and health agencies are concerned about the potential for pollution from these systems to harm the environment and human health.

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###

Typical septic tank effluent

- ◆ 76 million bacteria per 100ml
- ◆ No dissolved oxygen
- ◆ Biological Oxygen Demand:
140mg/l
- ◆ Total solids: 820 mg/l
- ◆ Nitrogen: 36 mg/l

As you can see, septic tank effluent can be harmful to human and aquatic life that may come into contact with it.

Source: Salvato, J.S., (1992) *Environmental Engineering & Sanitation*, (pp. 479) New York: John Wiley & Sons, Inc.



Septic tank effluent



Effluent from a malfunctioning aeration system



Aeration Septic System with Upflow Filter

Importance of Sanitary Sewer for Jackson Township



300 Garst Avenue
Greenville, Ohio 45331
Phone: 937-548-4196
Fax: 937-548-9654

Tel: 937-548-4196

Jackson Township Areas of Concern

Septic Systems around Union City, OH

According to Darke County Health Department records, there are approximately 189 properties within the area of concern in Jackson Township. The Darke County Health Department has 154 sewage permits for these properties. Therefore, there are approximately 35 homes that do not have sewage permits and likely do not have adequate sewage treatment.

Of the 154 permits on file, 105 of these are for systems that are considered discharging systems. Discharging systems include aeration systems, subsurface sand filters and dry wells. These systems allow the sewage to discharge to tiles, lakes, streams and leave the property. Also, these systems do not meet EPA discharge standards.

Of the 49 properties with leachfields, 34 of these systems were installed prior to 1980. Therefore, the majority of the systems have outlasted their useful lifespan and many will need replaced in the near future.

Why do we care about septic systems?

Since there are 140 systems (discharging systems & properties with no permit), this creates approximately **56,000 gallons per day** of inadequately treated sewage into receiving streams and tiles. (Assuming 400 gallons per day per household).



Aeration discharge pipe into a receiving stream

What are the potential benefits for the residents once sanitary sewer is installed?

The sewage generated by the township would be adequately treated and would not potentially discharge into the local streams and tiles.

Replacement septic system costs are typically between \$10,000-\$15,000, and require adequate undisturbed space.

Replacement discharging systems must meet Ohio EPA discharge limits and require permits through the Ohio EPA and Health Department. There are also sampling and service provider requirements.

Why is a sanitary sewer system important for Jackson Township near Union City?

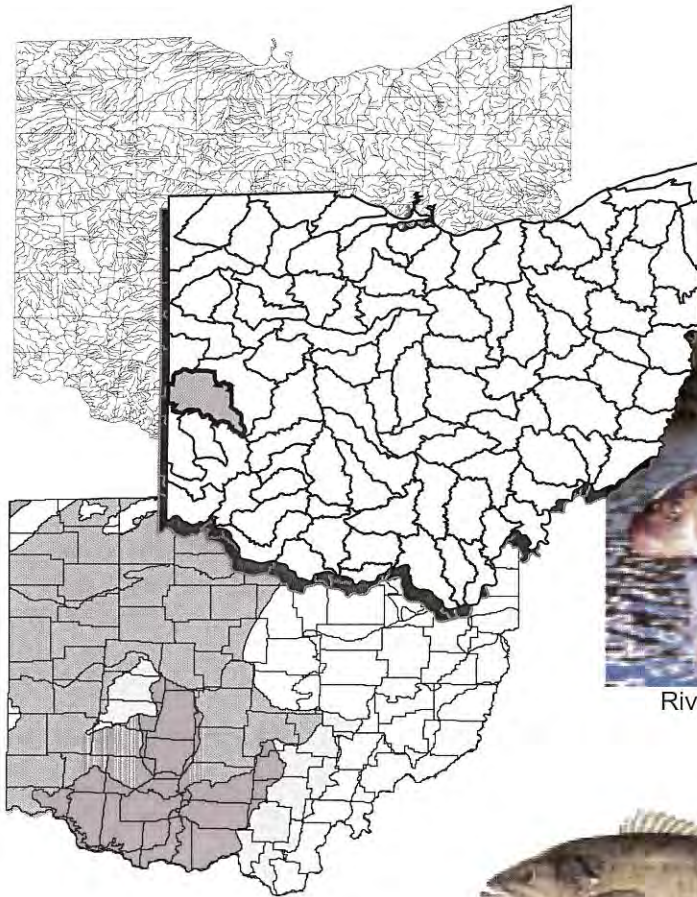
- ◆ Large number of discharging systems
 - ◇ 56,000 gallons per day of inadequately treated sewage
 - ◇ System is only as good as the outlet
 - ◇ Older drainage infrastructure
- ◆ 69% of non-discharging systems are more than 30 years old
- ◆ Small lot sizes
 - ◇ Inadequate room for on-site septic system replacement/repair
 - ◇ No room for primary and replacement sewage treatment are for new construction
- ◆ High concentration of housing



Polluted receiving stream from septic discharge

Biological and Water Quality Study of the Stillwater River Watershed

Darke, Miami and Montgomery Counties



Mayfly (*Eurylophella* sp.)



River Redhorse (*Moxostoma carinatum*)



Smallmouth Bass (*Micropterus dolomieu*)

November 6, 2001

P.O. Box 1049, 122 South Front Street, Columbus, Ohio 43216-1049

2' prefab concrete chamber with a resulting capacity of 90 gallons and a retention period of approximately 38 minutes. Using a 5% free available chlorine solution the maximum dosing rate is near 74 mg/l. Discharge is to a 6" concrete storm sewer down State Route 571. The mobile home park is licensed for 41 lots and is near capacity at 300 g.p.d. per lot.

Two treatment facilities existed in the park and were referred to as the East and West Plants. The East Plant discharged to **Dismal Creek** which joins with Greenville Creek. The West Plant discharged to Gray Branch which into fed the Mississinawa River Watershed. Discharge from the East Plant ceased in November of 1999 when Morris MHP was connected to Union City WWTP. The West Plant was later connected to Union City on December 6, 1999. Although the mobile home park package plants discharged during the 1999 Biological and Water Quality Survey, they no longer have direct discharges to any stream.

Village of Wayne Lakes - Mud Creek and Prairie Outlet Watershed

Wayne Lakes was incorporated in 1980 with a population estimate in 1987 of 700. There are 17 spring-fed lakes comprising about 100 acres of surface area. The lakes within the village boundaries are owned by Wayne Lakes Park, Inc. and lies within the Mud Creek Basin. Wayne Lakes Park, Inc. controls the outlet dam spillway elevations and inlet diversion dams which control lake levels. This is an unsewered community with undersized lots.

A verified complaint was filed in 1981 by the president of Wayne Lakes Park, Inc. alleging the pollution of lakes and groundwater at Wayne Lakes. Well logs near Wayne Lakes indicate the region is mostly dry gravel above clay and limestone. A random sampling evaluation of wells and surface waters of properties within the village was conducted Ohio EPA and the Darke County Health Department. An estimated 12 properties were noted as having sewage breakouts traversing to catch basins. This resulted in installation of holding tanks and additional leach lines for these properties. The investigation determined that although obvious individual sewage disposal problems existed in the area, wide pollution potential was not a risk.

More recent activities at Wayne Lakes include a citizen complaint in 1996 of a dark globule material observed floating on the surface of Iroquois Lake which discharges to Mud Creek. This investigation linked a direct discharge from a dairy farm on Rt. 503 to the manure noted in the lake.

Another complaint reported to Ohio EPA in 1997 referred to a milky white residue in Prairie Outlet was found flowing into Wayne Lakes via Prairie Outlet near St. Rt. 121. Field investigations located a field tile discharging brown water with an obvious livestock manure odor. The investigation revealed a veal farm on St Rt. 121 was pumping manure lagoons onto adjacent farm land. The manure had percolated to field under-drains and discharged thru field tiles to Prairie Outlet.

Dismal Creek

Dismal Creek, draining approximately 19.3 mi² (8.5 mi² in Ohio and 10.8 mi² in Indiana), enters Greenville Creek at RM 30.15. Water chemistry grab samples were collected from three locations in Dismal Creek (RMs 4.70, 1.76, and 0.10) during the 1999 survey (Figure 55, Tables 6 and 7, Appendix Table A-1).

Daytime grab D.O. concentrations frequently fell below WWH water quality criteria at RMs 1.76 and 0.10 while supersaturated values were recorded at the upstream site (RM 4.70). Median D.O. percent saturations decreased from 141% at RM 4.70 to 51% at RM 0.10. (Field crews noted abundant algae at the Indiana/Ohio border (RM 4.70)). All BOD₅ concentrations recorded were less than the MDL of 2 mg/l.

Ammonia-N concentrations frequently exceeded the 90th percentile reference concentration (53% of values) with the highest levels recorded at RM 1.76 (median and maximum of 0.158 mg/l and 0.315 mg/l). While nitrate-nitrite-N remained low with overall median and maximum values of 0.3 mg/l and 1.02 mg/l, phosphorus concentrations were elevated throughout with medians ranging from 0.25 mg/l at RM 4.70 to 0.42 mg/l at RM 1.76. Total suspended solids remained low with overall median and maximum concentrations of 6 mg/l and 24 mg/l.

Bacteriological testing (typically two fecal coliform and one *E. coli* per site) revealed fecal coliform above recreational criterion at RM 1.76 on one occasion and *E. coli* concentrations above criterion at RMs 1.76 and 0.10. Concentrations of manganese frequently exceeded criterion at all sites while iron exceeded criterion at RM 1.76. Additionally, while well within water quality criteria, higher arsenic levels were measured in Dismal Creek with overall median and maximum values of 10 µg/l and 16 µg/l.

During the 1999 survey, the Morris Mobile Home Park (MHP) located on Beamsville-Union City Road east of Union City discharged to Dismal Creek via a tributary upstream (within 1.5 miles) of the Hill Grove Southern Road sampling site (RM 1.76). In November of 1999, the MHP connected to the Union City WWTP (discharge to Gray Branch to Mississinewa River). Additionally, sites in Dismal Creek downstream of the confluence of O'Conner Ditch at RM 3.94 may also be impacted by discharges from Heartland Processing, a dairy located in Indiana. It was discovered that this facility historically discharged process water to the storm sewers leading to O'Conner Ditch and subsequently to Dismal Creek. In November of 1999 storm sewers were re-engineered to divert all Heartland flow to the sanitary sewers.

Kraut Creek and North Fork Kraut Creek

The North Fork Kraut Creek enters Kraut Creek at RM 1.65 which in turn enters Greenville Creek at RM 29.53. Water chemistry samples were collected at two sites (RMs 5.95 and 0.60) in Kraut Creek and at one site (RM 0.84) in the North Fork Kraut Creek (Figure 56, Tables 6 and 7, Appendix Table A-1). Daytime grab D.O. concentrations remained above WWH water quality criteria in both tributaries. Kraut Creek median percent saturations decreased from 114% at RM 5.95 to 82% at RM 0.60 while a median of 117% was recorded at RM 0.84 in the North Fork Kraut Creek. Inordinate algal growth was noted by field staff at supersaturated locations.

Dismal Creek

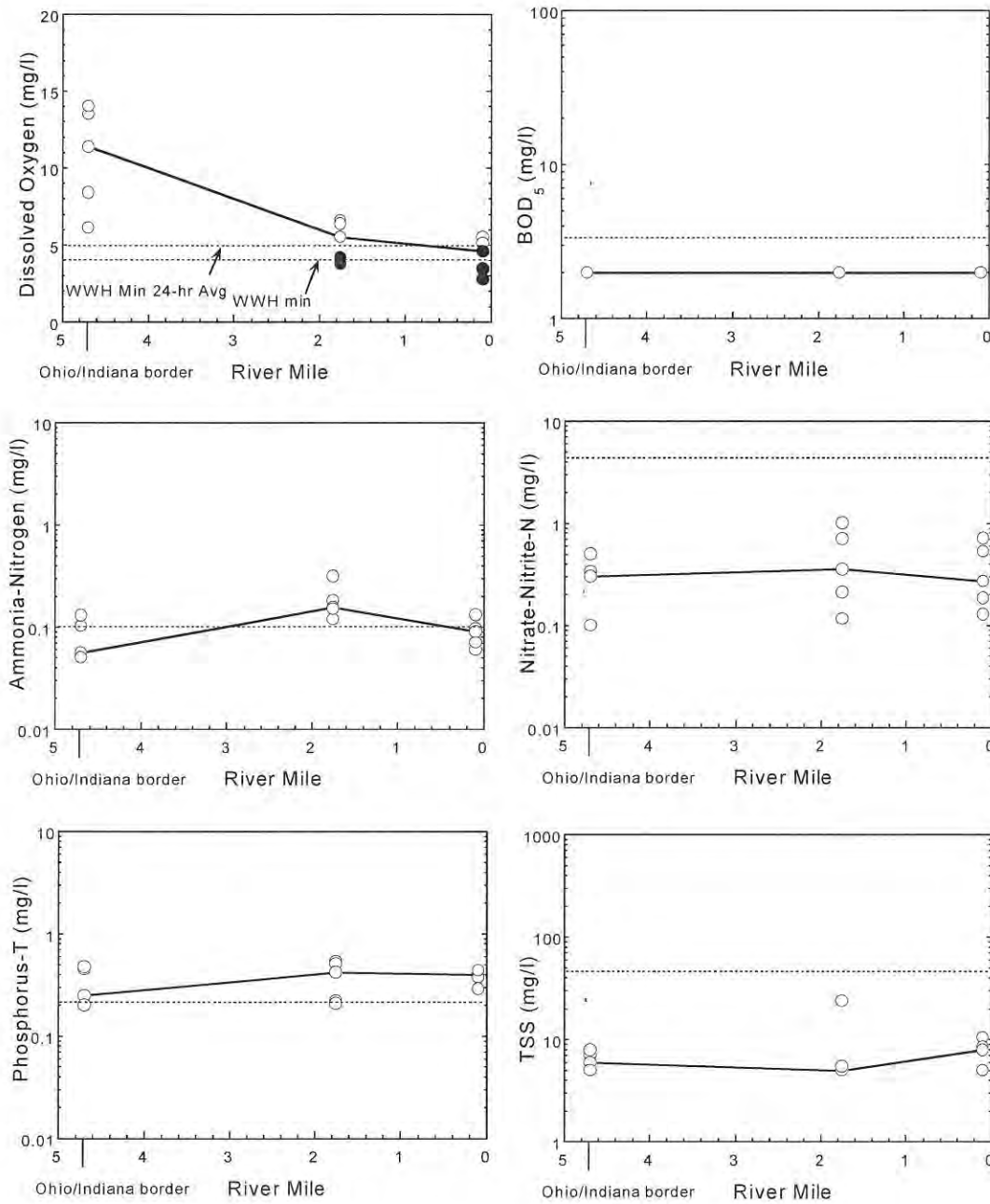


Figure 55. Longitudinal scatter plots of water chemistry results (daytime grabs) in Dismal Creek during the 1999 survey. Left to right from the top: dissolved oxygen, 5-day biochemical oxygen demand, ammonia-nitrogen, nitrate-nitrite-nitrogen, total phosphorus, and total suspended solids (TSS). The solid line depicts the median value at each river mile sampled. Water quality criteria are shown in the dissolved oxygen plot. (Values below criteria are shown as solid circles.) Dotted lines in the other plots represent the 90th percentile concentration from reference sites of similar size in the Eastern Corn Belt Plains (ECBP) ecoregion.



Biological and Water Quality Study of the Stillwater River Basin

Darke, Miami and Montgomery Counties



OHIO EPA Technical Report EAS/2014-10-08

Division of Surface Water
Ecological Assessment Section
April 2, 2015

Stillwater River

The general mechanism of nutrient enrichment as the driver of water quality is enacted down the run of the Stillwater River mainstem. Widely varying nitrogen and phosphorus concentrations coupled with inorganic nitrogen depletion, elevated levels of TKN and ammonia nitrogen, and episodically low dissolved oxygen concentrations were all especially evident in the headwater reach (i.e., the river upstream from mile ≈55; Figure 19). Downstream from Boyd Creek, nutrient concentrations, though elevated, were less variable, and oxygen concentration trended higher; TKN concentrations began to trend lower, and ammonia concentrations were typically at or below detection limits, all suggesting a more orderly processing of nutrients. However, occasional oxygen super-saturation, wide 24 h D.O. swings, and elevated benthic chlorophyll levels suggested that, on balance, the mainstem downstream from Boyd Creek was enriched, though not necessarily over-enriched.

Apart from nutrients and dissolved oxygen, other routine water quality parameters were within ranges typically observed for medium-sized rivers in Ohio, with the exception of run-off event samples collected on June 13, 2013. In those samples, metal concentrations were elevated but within the ranges typical for run-off samples from open, non-urban areas (NOAA 1999).

Greenville Creek

Unlike tributaries in the northern half of the watershed, water quality in Greenville Creek was not inordinately affected by enrichment from diffuse sources. Though modestly enriched with respect to phosphorus and nitrogen, signs of nutrient over-enrichment or secondary organic enrichment were not prominent, given that wide swings in dissolved oxygen were not evident, TKN concentrations were (generally) not elevated, and minimum dissolved oxygen levels were maintained throughout the survey. And fortunately, a fertilizer spill that wiped-out Dismal Creek (see Figure 16), did not appreciably impact Greenville Creek thanks to a lack of flow in Dismal Creek.

Water quality was, however, mildly perturbed in the reach running through Greenville owing to a combination of extensive physical modifications made to the stream channel in that reach, and pollution from storm water. Suspended sediment concentrations were higher, and dissolved oxygen concentrations lower upstream from the Greenville WWTP relative to adjacent reaches (Figure 20 e and f). The increase in TSS may reflect ponding of the stream in the vicinity of Daly Road (RM 22). Also, ammonia and TKN concentrations spiked at a storm water outfall at Ohio Street (RM 19.55; Figure 20 c and d).

Dismal Creek

Water quality in Dismal Creek was severely perturbed by a fertilizer spill from a plant in Indiana. Ammonia nitrogen concentrations as high as 19 mg/l were recorded from samples collected on August 15, 2013. However, high ammonia values (3 to 7 mg/l) were recorded from samples collected earlier in the survey, too, suggesting either another undetected source, or a more chronic problem with the fertilizer plant.

Painter Creek

Water quality in Painter Creek was negatively affected by the wastewater lagoon system serving the village of Arcanum. Ammonia nitrogen concentrations measured downstream from the lagoon tributary at RM 14.67 exceeded 1.0 mg/l in a sample collected on August 26, 2013. However, concentrations in Painter Creek were lower on average (Kruskal-Wallis test, $P < 0.001$) in 2013 (median 0.025 mg/l) compared to 1999 (median 0.117 mg/l), owing to separation of sewers serving the Village. Dissolved oxygen concentrations were highly variable in samples collected upstream from the lagoon

Area of Concern #1

Union City- Elroy Rd & State Route 47- 38 properties

- 32 aeration systems
 - 5 with upflow filters
- 3 subsurface sand filters
- 3 leachfields
 - all installed prior to 1988

- 35 lots are 1 acre or less
 - 32 - between 0.4591 & 0.75 acres
 - 3 - 1 acre

Area of Concern #2

State Route 571, Beatrice Drive & Beamsville-UC Rd- 107 properties

- 35 tank to tiles
- 30 subsurface sand filters
- 31 leachfields
 - 18 installed prior to 1973
- 11 aeration systems
 - 2 with upflow filters

- most properties are between 0.5 and 1 acre each

Area of Concern #3

Arnold Rd- 9 properties

- 9 aeration systems
 - 0 with upflow filters

- 9 - 0.4591 acre lots

Area of Concern #4

Pickett Rd- 12 properties

- 12 aeration systems
 - 1 with upflow filter

- 1- 0.877 acre lot
- 11- 0.4591 acre lots

Area of Concern #5

Worth Rd- 15 properties

15 leachfields

13 installed prior to 1980 (1-1987 & 1 altered in 2005)

14- 0.4591 acre lots

1-0.9183 acre lot

Area of Concern #6

Barr Rd- 8 properties

7 aeration systems

1 with upflow filter

1 subsurface sand filter

1- 58 acre tract

6- 0.75 acre tracts

1- 7 acre wooded tract

MVRPC Unsewered Communities Study

Environmental Overview: Jackson Township, Darke County

Summary:

This environmental overview was conducted as part of the Miami Valley Regional Planning Commission's Unsewered Communities Project, which examines options for communities where on-site treatment is failing to protect human health and the environment. This overview provides a high level examination of the environmental conditions present within the project study area of each of the identified participating communities.

The study area for the participating community of Jackson Township is divided into six separate areas, each with their own unique set of cultural and ecological resources. These six areas are identified on the environmental mapping.

Air Quality:

Darke County, Ohio is in attainment for all National Ambient Air Quality Standards. No air quality concerns are anticipated as a result of the proposed project.

Noise Impacts:

Temporary noise impacts may occur during construction, however, no permanent noise impacts are anticipated as a result of the proposed project.

Hazardous Materials:

An environmental site assessment was not conducted as part of this study.

Cultural Resources:

Study area number three is the only area within which cultural resources were identified. Two archaeological sites are located along the southwestern perimeter of study area number three and a single property determined to be eligible for inclusion in the National Register of Historic Places is located at the northernmost point of the study area (see attached map). The Ohio State Historical Preservation Office should be consulted prior to conducting any excavating or digging within any of these areas.

Three additional archaeological sites, four cemeteries, and a single property included in the National Register of Historic Places are all identified on the

MVRPC Unsewered Communities Study

Environmental Overview: Jackson Township, Darke County

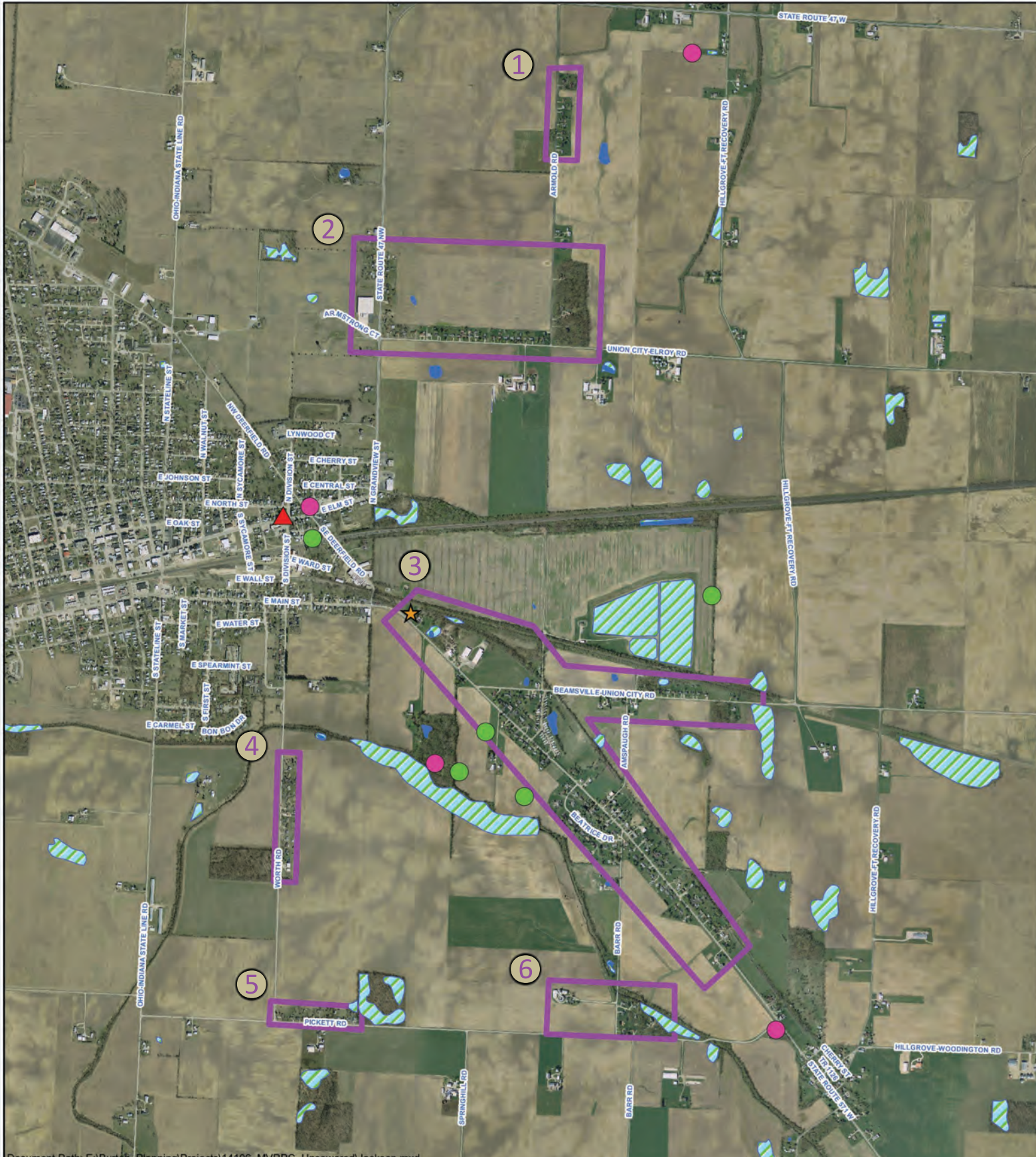
environmental mapping. It is unlikely that any of these structures would be impacted by the proposed project, however, if it is determined that these sites or structures may be impacted, coordination with the Ohio State Historical Preservation Office should be conducted prior to any impacts occurring.

Ecological Resources:

Study areas number two, three, five, and six all have ecological resources within them (see attached map). Study area two has a single pond in the western central portion of the area. Study area three has six wetlands along the northwestern and northeastern perimeters of the study area along with three ponds all located in the northern portion of the study area. Study areas five and six both have a single wetland located along the western perimeter of each of the study areas.

The discharge of any dredged or fill material below the ordinary high water mark in lakes and ponds, or below the upland wetland boundary in wetlands may require a waterway permit through the United States Army Corps of Engineers (USACE) and/or the Ohio Environmental Protection Agency (OEPA). Coordination should be conducted with these two resource agencies prior to conducting any work below the ordinary high water mark or below the wetland upland boundary.

The project study area is within the Greater Miami Buried Aquifer. Projects located within a Sole Source Aquifer should conduct coordination with the Ohio EPA to assist the Ohio EPA in understanding local hydrogeologic conditions and specific project design concerns. This coordination will also help to ensure that Sole Source Aquifer protection measures support or enhance existing groundwater protection efforts rather than duplicate them.



Document Path: E:\Burton\Planning\Projects\14106 MVRPC UnseweredJackson.mxd

<p>LEGEND</p> <p> STUDY AREA</p>	<p>CULTURAL RESOURCES</p> <ul style="list-style-type: none"> ● Archeological Sites1 ● Archeological Sites2 ● Cemetery_UTM16 ● Historic Structures ▲ Cemetery_UTM17 ▲ National Register1 ★ National Register2 ★ NR Determinations of Eligibility 	<ul style="list-style-type: none"> ■ Lakes, Ponds, Streams, Rivers Wetlands 	<p style="text-align: right;">Date: 4/28/2015</p> <p style="text-align: center;">0 1,000 2,000 4,000</p> <p style="text-align: center;">Feet</p> <div style="text-align: right;"> </div>
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AREA A -

	Project Cost	O/M&R	Present Worth
STEP Sewer	\$9,38,916	\$6,500	\$1,013,470
Packed Bed Media	\$693,264	\$29,000	\$1,025,891
Total	\$1,632,180	\$35,500	\$2,039,361

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$9,59,508	\$6,000	\$1,028,327
Lagoon	\$3,72,240	\$29,500	\$710,602
Total	\$1,331,748	\$35,500	\$1,738,929

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$9,59,508	\$6,000	\$1,028,327
Pump to Union City	\$1,158,796	\$20,000	\$388,194
Total	\$1,118,304	\$26,000	\$1,416,521

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$1,901,592	\$15,500	\$2,079,375
Extended Aeration	\$979,440	\$40,000	\$1,436,236
Total	\$2,881,032	\$55,500	\$3,515,611

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$1,901,592	\$15,500	\$2,079,375
Lagoon	\$1,019,040	\$33,000	\$1,397,547
Total	\$2,920,632	\$48,500	\$3,476,922

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$1,901,592	\$15,500	\$2,079,375
Pump to Union City	\$48,774	\$41,000	\$519,040
Total	\$1,950,366	\$56,500	\$2,598,415

	Project Cost	O/M&R	Present Worth
STEP Sewer	\$567,996	\$5,000	\$625,316
Packed Bed Media	\$441,144	\$28,000	\$762,301
Total	\$1,009,140	\$33,000	\$1,387,617

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$579,084	\$4,500	\$630,699
Lagoon	\$279,840	\$28,500	\$606,732
Total	\$858,924	\$33,000	\$1,237,431

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$579,084	\$4,500	\$630,699
Pump to Union City	\$88,044	\$12,000	\$235,683
Total	\$667,128	\$16,500	\$866,381

	Project Cost	O/M&R	Present Worth
STEP Sewer	\$3,62,588	\$24,000	\$3,637,846
Packed Bed Media	\$2,67,796	\$34,000	\$3,062,713
Total	\$6,303,604	\$58,000	\$6,700,559

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$3,440,184	\$26,000	\$3,738,401
Lagoon	\$1,817,112	\$36,500	\$2,235,763
Total	\$5,257,296	\$62,500	\$5,974,165

	Project Cost	O/M&R	Present Worth
Grinder Sewer	\$3,440,184	\$26,000	\$3,738,401
Pump to Union City	\$1,806,750	\$69,000	\$2,598,173
Total	\$5,246,934	\$95,000	\$6,336,575

	Project Cost	O/M&R	Present Worth
Gravily	\$1,780,284	\$5,500	\$1,843,368
Extended Aeration	\$421,080	\$31,500	\$782,382
Total	\$2,201,364	\$37,000	\$2,625,750

	Project Cost	O/M&R	Present Worth
Gravily	\$1,780,284	\$5,500	\$1,843,368
Lagoon	\$372,240	\$29,500	\$710,602
Total	\$2,152,524	\$35,000	\$2,553,971

	Project Cost	O/M&R	Present Worth
Gravily	\$1,780,284	\$5,500	\$1,843,368
Pump to Union City	\$1,158,796	\$20,000	\$388,194
Total	\$1,999,080	\$25,500	\$2,231,562

	Project Cost	O/M&R	Present Worth
Gravily	\$3,450,216	\$10,000	\$3,564,915
Extended Aeration	\$979,440	\$40,000	\$1,436,236
Total	\$4,429,656	\$50,000	\$5,001,151

	Project Cost	O/M&R	Present Worth
Gravily	\$3,450,216	\$10,000	\$3,564,915
Lagoon	\$1,019,040	\$33,000	\$1,397,547
Total	\$4,469,256	\$43,000	\$4,962,462

	Project Cost	O/M&R	Present Worth
Gravily	\$3,450,216	\$10,000	\$3,564,915
Pump to Union City	\$48,774	\$41,000	\$519,040
Total	\$3,498,990	\$51,000	\$4,083,955

	Project Cost	O/M&R	Present Worth
Gravily	\$1,031,976	\$5,000	\$1,089,326
Extended Aeration	\$297,000	\$29,500	\$635,362
Total	\$1,328,976	\$34,500	\$1,724,688

	Project Cost	O/M&R	Present Worth
Gravily	\$1,031,976	\$5,000	\$1,089,326
Lagoon	\$279,840	\$28,500	\$606,732
Total	\$1,311,816	\$33,500	\$1,696,058

	Project Cost	O/M&R	Present Worth
Gravily	\$1,031,976	\$5,000	\$1,089,326
Pump to Union City	\$88,044	\$12,000	\$235,683
Total	\$1,120,020	\$17,000	\$1,325,008

ALL AREAS

	Project Cost	O/M&R	Present Worth
Gravily	\$6,262,476	\$20,500	\$6,497,609
Extended Aeration	\$1,916,112	\$45,500	\$2,437,992
Total	\$8,178,588	\$66,000	\$8,935,601

	Project Cost	O/M&R	Present Worth
Gravily	\$6,262,476	\$20,500	\$6,497,609
Lagoon	\$1,817,112	\$36,500	\$2,235,763
Total	\$8,079,588	\$57,000	\$8,733,372

	Project Cost	O/M&R	Present Worth
Gravily	\$6,262,476	\$20,500	\$6,497,609
Pump to Union City	\$1,806,750	\$69,000	\$2,598,173
Total	\$8,069,226	\$89,500	\$9,095,782

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$1,437,401	\$8,000	\$1,529,160
Extended Aeration	\$421,080	\$31,500	\$782,382
Total	\$1,858,481	\$39,500	\$2,311,542

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$1,437,401	\$8,000	\$1,529,160
Lagoon	\$372,240	\$29,500	\$710,602
Total	\$1,809,641	\$37,500	\$2,239,762

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$1,437,401	\$8,000	\$1,529,160
Pump to Union City	\$1,158,796	\$20,000	\$388,194
Total	\$1,596,197	\$28,000	\$1,917,354

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$2,299,882	\$17,000	\$2,494,270
Extended Aeration	\$979,440	\$40,000	\$1,436,236
Total	\$3,279,322	\$57,000	\$3,930,506

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$2,299,882	\$17,000	\$2,494,270
Lagoon	\$1,019,040	\$33,000	\$1,397,547
Total	\$3,318,922	\$50,000	\$3,891,817

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$2,299,882	\$17,000	\$2,494,270
Pump to Union City	\$48,774	\$41,000	\$519,040
Total	\$2,348,656	\$58,000	\$3,013,310

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$1,102,939	\$5,000	\$1,160,289
Extended Aeration	\$297,000	\$29,500	\$635,362
Total	\$1,399,939	\$34,500	\$1,795,651

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$1,102,939	\$5,000	\$1,160,289
Lagoon	\$279,840	\$28,500	\$606,732
Total	\$1,382,779	\$33,500	\$1,767,021

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$1,102,939	\$5,000	\$1,160,289
Pump to Union City	\$88,044	\$12,000	\$235,683
Total	\$1,190,983	\$17,000	\$1,395,971

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$4,839,622	\$30,000	\$5,183,719
Extended Aeration	\$1,916,112	\$45,500	\$2,437,992
Total	\$6,755,734	\$75,500	\$7,621,711

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$4,839,622	\$30,000	\$5,183,719
Lagoon	\$1,817,112	\$36,500	\$2,235,763
Total	\$6,656,734	\$66,500	\$7,419,482

	Project Cost	O/M&R	Present Worth
Vacuum Sewer	\$4,839,622	\$30,000	\$5,183,719
Pump to Union City	\$1,806,750	\$69,000	\$2,598,173
Total	\$6,646,372	\$99,000	\$7,781,892