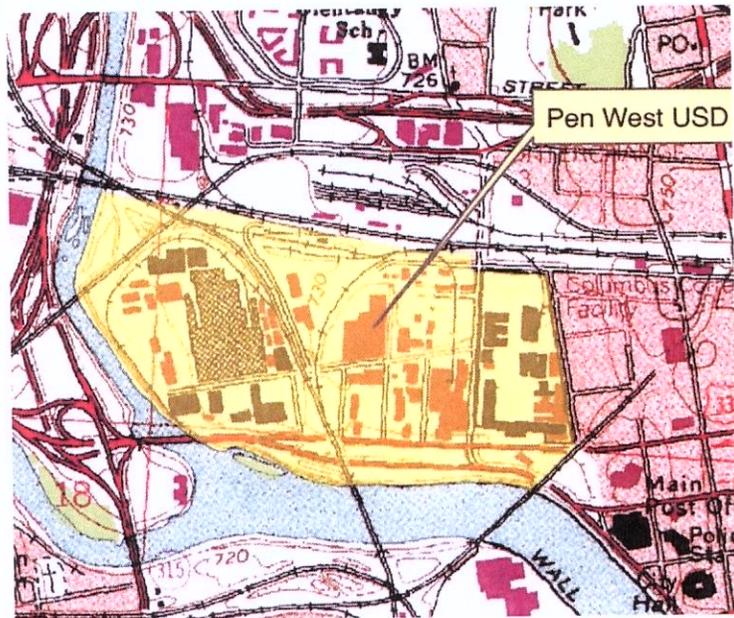




State of Ohio
Environmental Protection Agency

Division of Emergency and Remedial Response

Protectiveness Verification of the Urban Setting Designation for Pen West Area



October 2009

Ted Strickland, Governor
Chris Korleski, Director

**DIRECTOR'S PERIODIC VERIFICATION of the URBAN SETTING DESIGNATION
PROTECTIVENESS REPORT**

PEN WEST AREA: CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO

**USD #99USD015/Project #125-002189-003
October 2009**

Name and Address of USD Property: Pen West Development
(Approximately 152 acres)
Urban Setting Designation (USD)
Columbus, Ohio

Certified Professional: Thomas Mignery, CP #125

Request made on behalf of: City of Columbus

Date of USD request (USD Number): April 30, 1999 (99USD015)

Date of USD approval: October 26, 1999

Date of last USD verification: May 2, 2005

County and Ohio EPA District: Franklin County, Central District Office

1. PURPOSE

The purpose of this report is to provide the findings of Ohio Environmental Protection Agency's (Ohio EPA) second five-year protectiveness verification review of the Pen West Area Urban Setting Designation (USD), which the Director of Ohio EPA approved on October 26, 1999. This review was performed consistent with Ohio Administrative Code (OAC) 3745-300-10(C)(4) and Ohio EPA's guidance titled "Urban Setting Designation Procedures for the Director's Periodic Verification of the Protectiveness of Area-Wide USDs" revised April 18, 2005.

2. BACKGROUND

A. Subject Area

This review addresses a USD established for the property in the city of Columbus, referred to as the Pen West Area USD (99USD015). The Pen West Area USD includes approximately 152 acres located in the downtown area in the vicinity of the former Ohio Penitentiary. Figure 1, Pen West Area USD Site Location Map, shows the general area of the USD and Figure 2, List of Parcels, shows a list of the 84 parcel numbers subject to the USD.

Riverfront Commons Corporation originally requested the Pen West Area USD. Riverfront Common Corporation contracted with Burgess & Niple Ltd, who was represented by voluntary action program (VAP) certified professional (CP) Thomas J. Mignery (CP #125), for the submittal of the request of the Pen West USD. On April 30, 1999, the CP submitted the USD request in accordance with OAC 3745-300-10, and Ohio EPA evaluated the USD application criteria set forth in OAC 3745-300-10(D)(1)(a) through (e) as well as OAC 3745-300-10(D)(2)(e). Ohio EPA formally approved the Pen West Area USD request on October 26, 1999.

B. Original Approval Criteria

The original approval criteria are summarized in Ohio EPA's approval letter dated October 26, 1999 (Attachment A, Ohio EPA's Approval of USD Request).

3. SUMMARY OF PAST FIVE-YEAR VERIFICATIONS

This report is the second five-year verification review. The first five-year verification review was conducted during the period from November 17, 2004 through May 2, 2005.

There are no past issues to discuss as the key assumptions supporting the Pen West Area USD continued to be valid and, therefore, protective.

4. VERIFICATION ACTIVITIES

Ohio EPA's DERR, Central District Office (CDO) project coordinator, with support from Division of Drinking and Ground Water (DDAGW) staff, reviewed the Pen West Area USD.

A. OAC 3745-300-10(C)(3)(b)(i) (a) and (b) – Determining whether any additional well(s) have been installed within one-half mile of the urban setting designation boundary or the geographic area that are or will be impacted by chemicals of concern emanating from the property.

1. Ohio Department of Natural Resources (ODNR) Well Logs.

On September 16, 2009, DDAGW staff reviewed ODNR water well logs within a one-half mile radius of the Pen West Area USD boundary. The search was conducted for logs of wells installed from January 1, 2004 to September 16, 2009. The results of the search indicate that no potable-use wells logs within one-half mile of the Pen West Area USD boundary were on record in the ODNR on-line well log search system for that time interval.

DDAGW staff also reported that there were three new agricultural water wells installed in 2008 and 2009 within one-half mile of the Pen West Area USD boundary. The ODNR Well Log and Drilling Reports are presented in Attachment B, New ODNR Well Logs. One well is located in Goodale Park and the second is in Huntington Park. Upon further review, these non-potable use wells were installed in limestone bedrock and are used to fill a pond and for irrigation purposes. The third water well at Columbus Police Headquarters is also completed in limestone and is for geothermal test use.

2. Public water systems on file at Ohio EPA.

DDADW staff reported that no new public water systems (PWS) were identified within the one-half mile radius of the Pen West Area USD boundary. As shown on Figure 3, Location of Source Water Protection Areas, Columbus and Vicinity, there has been a reduction in the number of PWSs within a five-mile radius of the Pen West Area USD boundary.

There are two active PWS wells, Strawser & Allen Partner and FEDEX National Limited, and one PWS surface intake for Columbus, located on Dublin Road on the Scioto River.

3. Private Water Supplies of record at Department of Health.

On September 18, 2009, the Columbus Department of Health, Environmental Health, was contacted to determine if there were any records of private water wells or requests for city permits to install private water wells within a one-half mile radius of the Pen West Area USD boundary.

On September 25, 2009, the Columbus Health Department reported that there are no records of new private (residential) potable water wells and/or permits requested since January 2004 for locations (address ranges) within an approximate one-half mile radius of the Pen West Area USD boundary.

4. Bottled Water Supply Wells.

On September 18, 2009, Marisue Madlener with the Ohio Department of Agriculture, Division of Food Safety, was contacted and verified that there are no commercial water supply wells within the Pen West Area USD or within one-half mile of the USD boundary.

No bottled water supply wells were identified in the subject area. The nearest bottled water firm is located approximately six-miles away at 1917 Joyce Avenue, Columbus 43219.

B. OAC 3745-300-10(C)(3)(b)(ii) – Determining if USD is still protective if it is determined that a new potable well has been installed.

1. OAC 3745-300-10(C)(3)(b)(ii)(a) – Determine whether the wells are part of a community water system with a drinking water source protection plan and whether the owner of the community water system consents or will consent in writing to the USD.

No new community water systems with a drinking water source protection plan were identified within the one-half mile radius of the Pen West Area USD boundary. See response to A.2.

2. OAC 3745-300-10(C)(3)(b)(ii)(b) – Determine whether the capture zones of any wells installed for potable water supply purposes within one-half mile of the property (USD boundary) do not extend under the property for which the urban setting designation applies.

The determination of capture zones is not applicable as no potable water supply wells have been installed within one-half mile of the Pen West Area USD boundary.

C. OAC 3745-300-10(C)(3)(b)(iii) – Are enforceable restrictions still valid.

The Pen West Area USD does not rely on enforceable restrictions. Based on the results of the last USD verification review, there are no enforceable restrictions (*e.g.*, local ordinances) on the use of ground water for potable purposes within the city of Columbus. The city of Columbus, however, does require a city permit for installation of new water wells. See response to A.3.

D. OAC 3745-300-10(C)(3)(b)(iv) – Determine whether any new drinking water source protection area(s) for a public water system using ground water has been delineated that incorporate areas within the urban setting designation.

No new drinking water source protection area(s) for a PWS using ground water has been identified within the Pen West Area USD. See response to A. 2. and B. 1.

E. OAC 3745-300-10(C)(3)(v) (a) and (b) – Contacting owner/operators and surrounding communities in the region of the USD to verify future use.

Ohio EPA surveyed 16 surrounding communities and two water system owner/operators within an approximate five-mile radius regarding water use needs and the potential for water development that might impact the Pen West Area USD. Below is a summary of the survey.

| Water Supply and Municipality | Contact | Phone Number | Current Use Demands Meet | Future Development Plans |
|--------------------------------------|-------------------|-----------------------|---------------------------------|---------------------------------|
| City of Columbus | Lynn Kelly | (614) 645-7100 | Yes | No |
| Ohio-American Water Co. | Thomas Schwing | (614) 882-6586 | Yes | No |
| Bexley* | Bill Harvey | (614) 559-4222 | Yes | No |
| Clinton Township* | Jack Wilson | (614) 471-6854 | Yes | No |
| Franklin County* | Charlie McFarland | (614) 877-9830 | Yes | No |
| Grandview Heights* | Pat Bowman | (614) 488-3159 Ext. 3 | Yes | No |
| Grove City* | Sharon Reichard | (614) 277-1107 | Yes | No |
| Hamilton Township* | Chris Hann | (614) 491-0812 | Yes | No |
| Jackson Township | Nancy Fisher | (614) 875-2742 | Yes | No |
| Madison Township** | Larry Flowers | (614) 836-5308 | Not Applicable (Yes) | No |
| Marble Cliff* | Cindy McKay | (614) 486-6993 | Yes | No |
| Mifflin Township | Nancy White | (614) 471-4494 | Not Applicable | Not Applicable |
| Norwich Township*, ** | Wayne Warner | (614) 876-7694 | Yes | No |
| Obetz* | Marty Ryan | (614) 491-5733 | Yes | No |
| Perry Township*, ** | Brian Shonkwiler | (614) 889-2669 | Yes | No |
| Truro Township*, ** | Bob Stapleton | (614) 866-7391 | Yes | No |
| Upper Arlington* | Jim Plamer | (614) 583-5360 | Yes | No |
| Valleyview* | Tom Watkins | (614) 279-5630 | Yes | No |

Notes: * = Water supply provided by the City of Columbus.
 ** = Water supply provided by the Ohio-American Water Co.

None of the surrounding communities or owner/operators have future plans to develop ground water for potable purposes near the Pen West Area USD. Two of the communities, Mifflin Township and Jackson Township, are served by private water well systems. Most of Hamilton Township is also served by private water wells. See Attachment C Water Use Survey.

5. CONCLUSIONS AND RECOMMENDATIONS

Based upon this verification review, no changes in the potable use of ground water were identified within the prescribed areas that would adversely impact the Pen West Area USD in the city of Columbus. Currently, the Pen West Area USD has not been used to support a no further action letter. As part of the issuance of any such no further action letter, the CP must verify that the Pen West Area USD remains protective of the potable use pathway for the property at that time per OAC 3745-300-10(C)(3).

This protectiveness verification review for the Pen West Area USD was performed in accordance with the "Urban Setting Designation Procedures for the Director's Periodic Verification of the Protectiveness of Area-Wide USDs" and serves as its five-year verification review. Completion of this work addresses the periodic verification review in accordance with OAC 3745-300-10(C)(4). The next five-year verification review for the Pen West Area USD is due on October 26, 2014.

FIGURES

Figure 1
Pen West USD Site Location Map

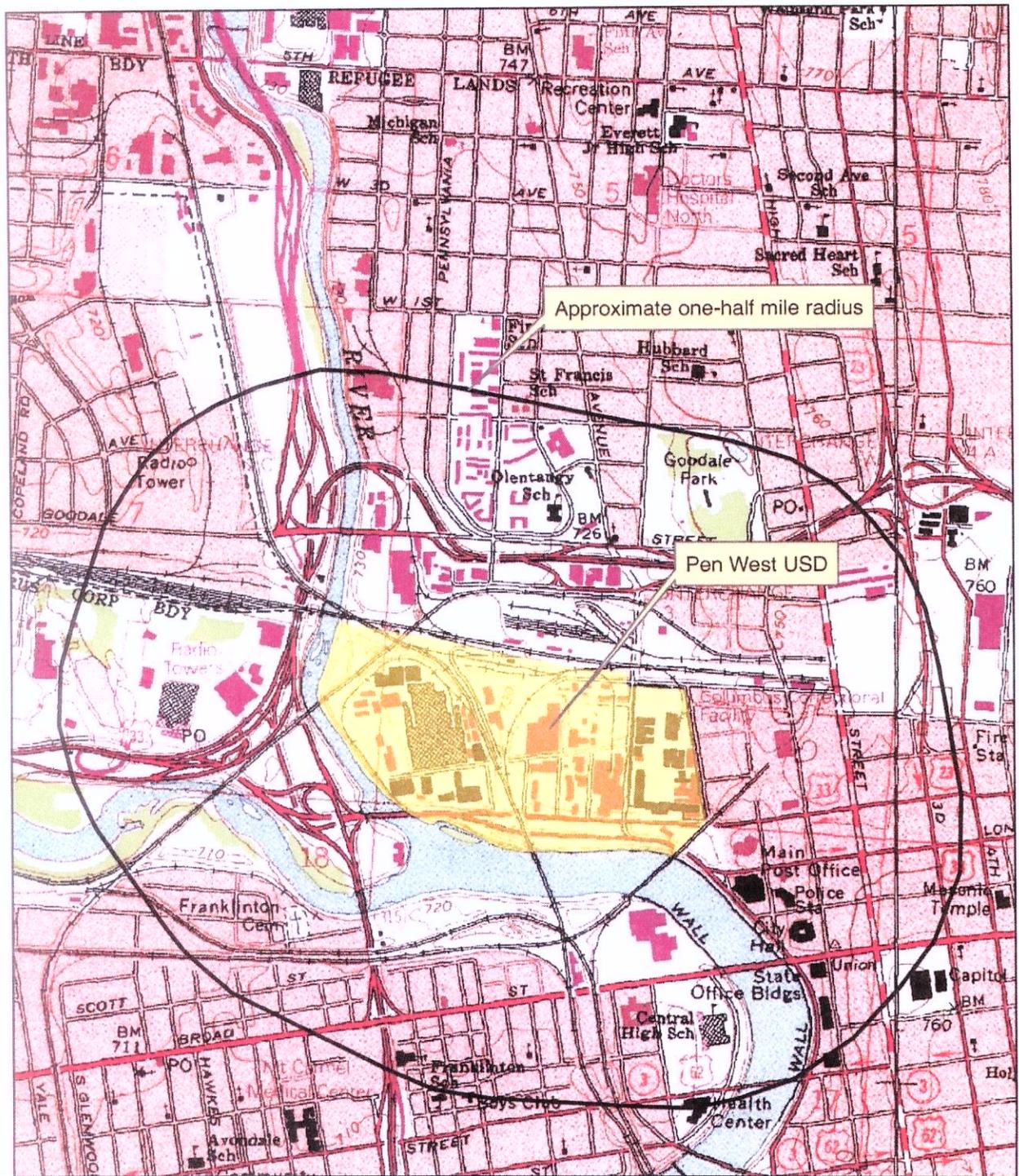


Figure 1
 Pen West USD
 Site Location Map

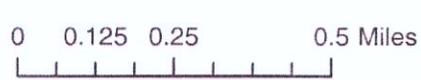
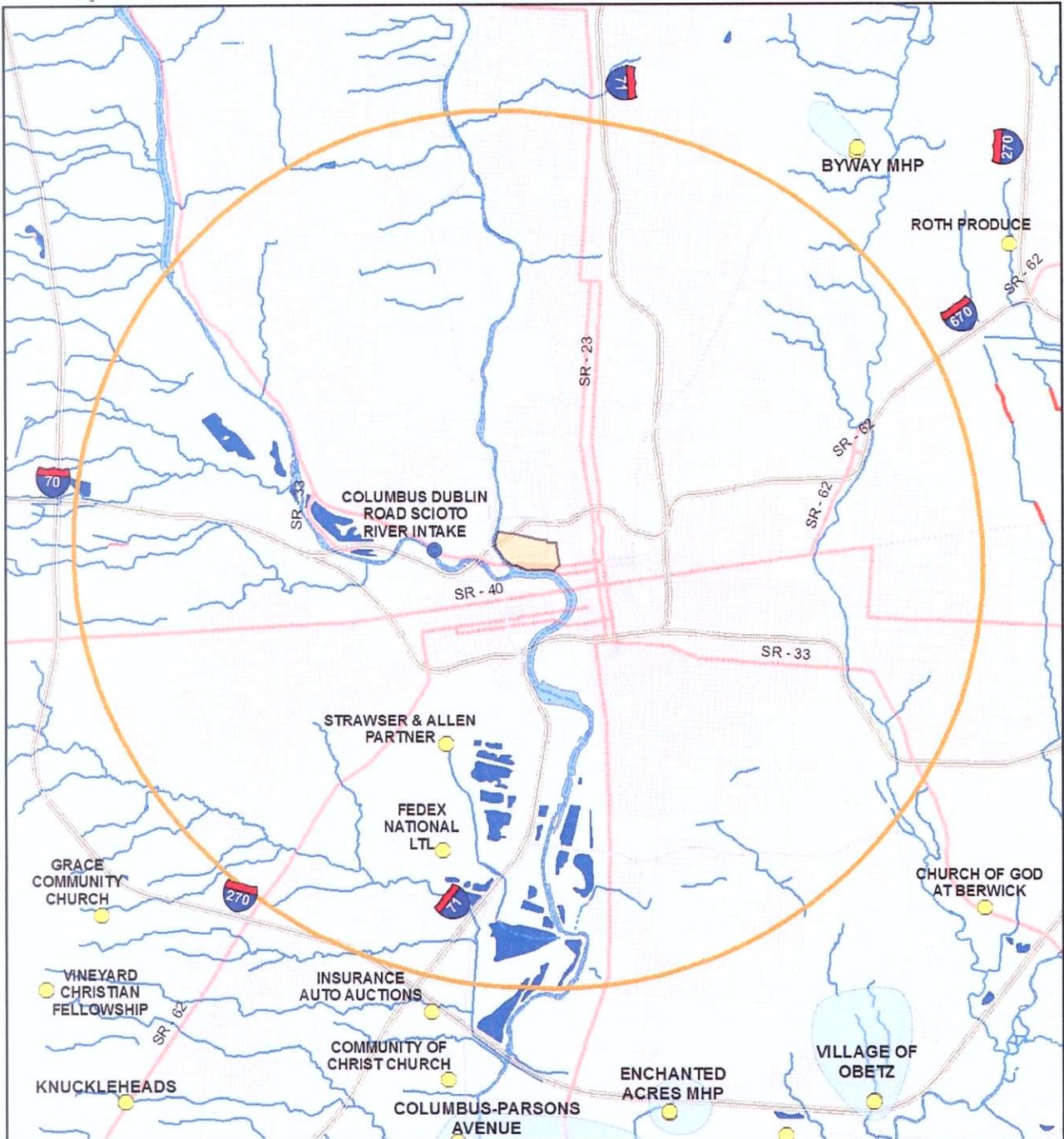


Figure 2
List of Parcels

| | |
|------------|---|
| 010-002283 | IACOVETTA EUGENE R TR |
| 010-002801 | RIVERSIDE ASSET CORP |
| 010-002999 | TEMPLE BETH R & DALE O FATIG |
| 010-003012 | BGT INVESTMENTS |
| 010-003469 | KATZ FAMILY L F 3 |
| 010-003470 | KATZ FAMILY L F 3 |
| 010-005518 | JAEGER COMMERCE PARK LIMITED PARTNERSHIP |
| 010-006060 | KLOSS MEREDITH B |
| 010-006143 | WILSON WILLIAM H |
| 010-007527 | TRARP VICTOR V |
| 010-008300 | CITY OF COLUMBUS OHIO |
| 010-008442 | WILSON WILLIAM H |
| 010-008443 | JAEGER COMMERCE PARK LIMITED PARTNERSHIP |
| 010-008484 | NEW VENTURE INVESTMENTS LTD |
| 010-008485 | NEW VENTURE INVESTMENTS LTD |
| 010-008651 | STATE OF OHIO |
| 010-008652 | RIVERSIDE ASSET CORP |
| 010-008842 | CITY OF COLUMBUS OHIO |
| 010-010455 | PUTNAM HILL COMPANY LIMITED PARTNERSHIP |
| 010-010456 | WILSON WILLIAM H |
| 010-011483 | RIVERSIDE ASSET CORP |
| 010-014228 | RIVERSIDE GROUP LIMITED PARTNERSHIP |
| 010-014455 | WEASNER MICHAEL L |
| 010-017626 | WILSON WILLIAM H |
| 010-018386 | KATZ FAMILY L F 3 |
| 010-020215 | JAEGER COMMERCE PARK L F |
| 010-022709 | TRARP VICTOR V |
| 010-024126 | STATE OF OHIO |
| 010-024129 | KATZ FAMILY L F 3 |
| 010-024902 | WEASNER MICHAEL L |
| 010-024906 | WEASNER MICHAEL L |
| 010-024957 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-025301 | KATZ FAMILY L F 3 AFDT |
| 010-026425 | NEW VENTURE INVESTMENTS LTD |
| 010-028175 | WILSON WILLIAM H |
| 010-028184 | LANNAN WILLIAM K JR & HOWARD C PARKS TR |
| 010-030188 | GOODBURN GEORGE L JR |
| 010-030366 | UNION FORK & ROE CO THE |
| 010-031821 | PAUL WILLIAM T & BARBARA W CO-TRS |
| 010-034409 | HOFFMAN SALLY E ET AL 3 TRUSTEES & ET AL 7 |
| 010-035238 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-035239 | NWD INVESTMENTS LLC |
| 010-035242 | NWD INVESTMENTS LLC |
| 010-035246 | UNKNOWN |
| 010-036939 | KATZ INTERESTS INC |
| 010-038672 | TRARP VICTOR V |
| 010-039051 | WILSON WILLIAM H |
| 010-052056 | KATZ FAMILY L F 3 |
| 010-052205 | UNION FORK & ROE CO THE |
| 010-057550 | NWD INVESTMENTS LLC |
| 010-057861 | IACOVETTA EUGENE TR |
| 010-063298 | CITY OF COLUMBUS OHIO |
| 010-064945 | HOFFMAN SALLY E ET AL 3 TRUSTEES & ET AL 6 |
| 010-066076 | STATE OF OHIO |
| 010-066078 | STATE OF OHIO |
| 010-066079 | STATE OF OHIO |
| 010-066111 | CONSOLIDATED RAIL CORP NOT USED OPERATION |
| 010-066120 | STATE OF OHIO |
| 010-066121 | STATE OF OHIO |
| 010-066122 | STATE OF OHIO |
| 010-066123 | STATE OF OHIO |
| 010-066124 | STATE OF OHIO |
| 010-066131 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066132 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066133 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066145 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066146 | UNKNOWN |
| 010-066147 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066148 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066149 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066170 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066171 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066175 | CSX TRANSPORTATION INC CHESAPEAKE & OHIO RY USED IN OPERATION |
| 010-066176 | UNKNOWN |
| 010-066246 | BGT INVESTMENTS |
| 010-066352 | LION-DOV |
| 010-066394 | COLUMBUS & SOUTHERN OHIO ELECTRIC CO |
| 010-066777 | CITY OF COLUMBUS W S PUMP |
| 010-067012 | CITY OF COLUMBUS OHIO |
| 010-077414 | NWD INVESTMENTS LLC |
| 010-077820 | RIVERSIDE ASSET CORP |
| 010-212114 | GOODBURN GEORGE L JR |
| 010-227830 | NEW VENTURE INVESTMENTS LTD |
| 010-241320 | SAVKO BROS PROPERTIES I LLC |

Figure 3
Location of Source Water Protection Areas
Columbus and Vicinity

Pen West USD



Map generated September 23, 2009



- Public Water System Wells (Active)
- Public Water System Intakes (Active)
- Pen West USD
- 5 Mile Radius
- Source Water Protection Areas
- Open Water (NHD)
- Municipal Roads
- Interstate
- Turnpike
- US Highway
- State Route



Figure 3. Location of Source Water Protection Areas, Columbus and Vicinity

ATTACHMENTS

Attachment A
Ohio EPA's Approval of USD Request

STREET ADDRESS:

Lazarus Government Center
122 South Front St.
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

MAILING ADDRESS:

Lazarus Government Center
P. O. Box 1049
Columbus, OH 43216-1049

OCT 26 1999

Mr. Thomas Mignery
Burgess & Niple Ltd
5085 Reed Road
Columbus, Ohio 43220

Re: Approval of Urban Setting Designation, Pen West Area, City of Columbus (ID: 99USD015), Franklin County, Ohio.

Dear Mr. Mignery:

The purpose of this letter is to respond to and approve your request on behalf of your client, the City of Columbus (Columbus), for an Urban Setting Designation (USD) for the 152 acre area known as the "Pen West Area" within Columbus, Franklin County, Ohio. A general map of the area subject to this USD approval is included as Attachment 1 hereto. A list of the 84 parcel numbers subject to this USD approval is also included as Attachment 1.

The map in Attachment 1 provides an accurate description of the boundary of the entire Pen West Area USD. This map was generated from records of 84 permanent parcel numbers which comprise the Pen West Area, and which are on file in the Franklin County Recorder's office. The description of the USD area was also provided to Ohio EPA by the CP and Volunteer in an electronic format utilizing a software program known as ArcInfo GIS.

This USD request has been made pursuant to Ohio Administrative Code (OAC) 3745-300-10(D) under the Voluntary Action Program (VAP). As set forth in OAC 3745-300-10(D), the USD authorizes the use of an alternative standard for ground water cleanup for the area delineated within the USD, generally based upon the urban nature of the area, the availability and widespread use of public drinking water supplies, and lack of use of ground water in the area for potable purposes.

A USD may be requested under the VAP by a Certified Professional (CP) upon demonstration that the threshold criteria contained in OAC 3745-300-10(D) (1)(a) through (e) have been met within the USD area. The Director of Ohio EPA is authorized to approve a USD after Ohio EPA finds that the threshold criteria are met, and upon consideration of the additional criteria contained in OAC 3745-300-10(D)(2)(e)(ii) through (vii), regarding,

Bob Taft, Governor
Maureen O'Connor, Lieutenant Governor
Christopher Jones, Director

among other things, regional water resource needs, existing or potential future uses of ground water, and the potential impact of the USD on surrounding jurisdictions.

The following briefly describes the Ohio EPA's determination of how your USD request demonstrates that the Pen West Area meets the threshold criteria in OAC 3745-300-10(D)(1)(a) through (e), and the Ohio EPA's consideration of the additional factors contained in OAC 3745-300-10(D)(2)(e)(ii) through (vii).

I. Threshold Criteria: OAC 3745-300-10(D)(1)(a) through (e)

1. OAC 3745-300-10(D)(1)(a): Property Location.

- a) The General Site Location Map indicates that the Pen West Area, composed of 152 acres, is located entirely within the corporation boundaries of Columbus.
- b) The 1990 U.S. Census reported the total population of Columbus to be 632,958, which meets the minimum population requirements for a USD within a city in Ohio.

2. OAC 3745-300-10(D)(1)(b): Parcels Connected to a Community Water Supply.

The following information supports the conclusion that not less than 90 percent of the parcels within Columbus are connected to the community water supply:

- a) The USD request for Miranova Development, (98USD007) presented by Hull & Associates (HAI) in 1998, indicated that 99.3 percent of the housing units within Columbus are served by the community water supply.
- b) Although the City of Columbus has no restrictions on the use of groundwater as a potable water supply, the Ohio Rules for Private Water Systems require siting criteria that could not be met within the high level of urban development that is present in the Pen West Area, thereby necessitating connection to the Columbus municipal water supply system.
- c) Mr. John Funk, (Fiscal Manager, City of Columbus, Department of Public Utilities, (CCDPU), Division of Water) verified in a letter dated January 6, 1999, that the entire Pen West Area is within the Columbus Division of Water service area, with water service available to all parcels. He further stated that the city was not aware of any parcels within the area that are utilizing water for potable uses other than from the Columbus municipal water supply.

- d) A Geographic Information System (GIS) database for Franklin County was utilized by the CP to demonstrate that not less than 90 percent of the parcels are connected to the community water supply. According to the April 1998 HAI submittal, 216,538 parcels or 98.8 percent of the total 219,118 parcels within Columbus, are connected to the community water supply.
- e) The HAI submittal included maps of the existing water distribution trunk mains and secondary water lines that were provided by the CCDPU, in which it was shown that there are water mains and service to every street in the Pen West Area of Columbus.
- g) Within Columbus, the USD request for the Miranova Development property was approved by the Director on September 24, 1998. The Miranova property is approximately 3500 feet south of the Pen West Area, and the ½ mile buffer radius from the Miranova USD is adjacent to the southern Pen West Area boundary.

3. OAC 3745-300-10(D)(1)(c): Wellhead Protection Area.

The USD area is not located within an endorsed wellhead protection area, or a proposed wellhead protection area currently submitted to Ohio EPA for review and endorsement. The proposed Pen West USD is approximately ten (10) miles north of the closest wellhead protection area (Columbus' South Well Field).

4. OAC 3745-300-10(D)(1)(d): Wells Within ½ Mile of the Property Boundary.

The following information was presented with the Pen West USD request to support the CP's demonstration that no potable wells exist within the Pen West Area or within one-half (½) mile of the Pen West Area boundary:

- a) Based on the data available from the Ohio Department of Natural Resources (ODNR), such as the located, and unlocated ODNR well logs, 26 well records were identified within the Pen West area or within one-half (½) mile of the Pen West boundary. However, a subsequent well inventory concluded that none of these wells are used for a potable water supply;
- b) As previously stated, Mr. John Funk, (CCDPU), verified in a letter dated January 6, 1999, that the City was not aware of any parcels within the area that are utilizing water for potable uses other than from the Columbus municipal water supply.

- c) Based on data available from Ohio EPA, there were no community, non-transient non-community, or transient non-community water systems within the Pen West Area or within one-half (½) mile of the USD boundary;
- d) As previously stated, the City of Columbus has no restrictions on the use of groundwater as a potable water supply; however, the Ohio Rules for Private Water Systems require siting criteria that could not be met within the high level of urban development that is present in the Pen West Area, thereby necessitating connection to the Columbus municipal water supply system.
- f) The previously referenced USD request for Miranova Development, submitted by HAI in 1998 indicated that 99.3 percent of the housing units within Columbus were served by the public community water supply.

5. OAC 3745-300-10(D)(1)(e): Sole Source Aquifer or 100 gpm Unconsolidated Aquifer.

Based on data available from Ohio EPA and ODNR ground water resources map for Franklin County, the Pen West Area is not located over a consolidated Sole Source Aquifer, although the Pen West Area is located over an unconsolidated saturated zone capable of yielding greater than one hundred gallons per minute, which therefore, classifies it as Critical Resource Groundwater. In accordance with OAC 3745-300-10(D)(1)(e), the CP adequately demonstrated that the ground water is not currently used or expected to be used in the future for potable purposes in the Pen West Area and within one-half (½) mile of the Pen West boundary.

II. Additional Factors for Consideration: OAC 3745-300-10(D)(2)(e)(ii) through (vii)

In addition to the threshold criteria contained in OAC 3745-300-10(D)(1)(a) through (e), OAC 3745-300-10(D)(2)(e)(ii) through (vii) require consideration of several factors for a USD approval: the potential impact of the USD on surrounding jurisdictions, and on regional water resource needs; existing or potential future uses of ground water in the region or in the USD area; the availability and feasibility of treatment systems; and any other factors determined to be relevant to the determination of whether the USD is protective of public health, safety, and the environment.

1. OAC 3745-300-10(D)(2)(e)(ii) through (iii): Potential Impact of the USD on Surrounding Jurisdictions and Regional Water Resource Needs.

After consultation with representatives of each jurisdiction within a five (5) mile radius surrounding the Pen West Area ("surrounding jurisdictions"), the criteria contained in this rule have been considered by Ohio EPA, in light of the information received. The

surrounding jurisdictions include: Obetz, Grove City, Grandview Heights, Upper Arlington, Valley View, Bexley, Marble Cliff, Clinton Township (Twp), Franklin Twp., Hamilton Twp., Jackson Twp., Madison Twp., Mifflin Twp., Norwich Twp., and Truro Twp. Reasonably available information was initially gathered from these jurisdictions through a telephone survey for the Miranova USD which was conducted between June 4, 1998 and June 28, 1998. A subsequent telephone survey of these same jurisdictions was conducted from September 16, 1999 to September 20, 1999.

Most of the surrounding jurisdictions receive their sources of public drinking water from the City of Columbus. The source of water for the Columbus community water system is surface water from the Scioto River, a number of above ground reservoirs and ground water from the South Well Field. The South Well Field is located approximately eight to ten miles south of the Pen West Area and the wellhead protection area associated with the wellfield does not incorporate any of the Pen West Area. Obetz operates a community water system. The source of water for Obetz is groundwater. The Obetz well field is located approximately eight miles to the southeast and the well head protection area associated with the wellfield does not incorporate any of the Pen West Area. In addition, some areas in Madison, Norwich and Truro Townships are served by Citizens Utilities Company, a public water supply company. These areas are greater than five miles from the Pen West Area. The source of water for each of these community water systems is ground water. Mr. Steve Henson, owner of Citizen's Utilities, felt that the well fields for these areas would not be impacted by the USD request. In a telephone interview conducted on September 16, 1999, Mr. Henson re-affirmed these views.

Finally, Columbus and the surrounding jurisdictions reportedly have not experienced any shortages of water, and all anticipate having a sufficient supply of water to meet all future needs. A summary of the "Water Beyond 2000," a project completed by Columbus, which was provided with the USD request, includes expansion of the well field to the south and reservoirs to the north, and demonstrates the City's commitment to expanding water service. Therefore, based on the information provided with the USD request, and based upon information obtained in the previous Miranova USD request, it does not appear that regional water resource needs will be impacted by the proposed Pen West USD. In addition, Ohio EPA has no evidence that the USD will adversely impact ground water needed for current and anticipated future potable uses in the surrounding jurisdictions as a result of contamination that may exist within the Pen West Area.

2. OAC 3745-300-10(D)(2)(e)(iv) through (v): Current or Expected Future Ground Water Use.

Based on the information received by the CP, and upon the information gathered by Ohio EPA for consideration of the USD request, ground water in the Pen West Area is not currently being used by residents as a source of water used for potable purposes, and is not reasonably expected to be used as a future source of water used for potable purposes by residents. Furthermore, it is unlikely that potable well installation will occur in the region or the Pen West Area; therefore, exposure to potentially contaminated ground water is unlikely. Representatives of the other surrounding jurisdictions have stated that potable well installation is unlikely due to the availability of drinking water from Columbus' water supply system. Therefore, upon consideration of current and future expected uses of ground water as a potable source in the region, Ohio EPA believes that the USD will be protective of public health, safety and the environment because of the lack of evidence that potable wells are currently being used in the region, and the Ohio Department of Health rules which specify setback distances from building foundations, property lines, utilities and easements, and known sources of contamination, suggest that the development of ground water for potable use within the Pen West Area is unlikely.

3. OAC 3745-300-10(D)(2)(e)(vi): Availability and Feasibility of Treatment Systems.

The information submitted by the CP on behalf of Columbus, and the additional information obtained by Ohio EPA, indicate that ground water is not currently, nor expected to be, utilized in the Pen West Area for potable purposes. Also, no evidence suggests that granting a USD for the Pen West Area will cause an adverse impact on the potability of water in the Columbus public water supply system. Therefore, in this case, Ohio EPA does not consider the availability and feasibility of treatment systems to be a relevant factor for determining whether the USD will be protective of public health, safety and the environment.

4. OAC 3745-300-10(D)(2)(e)(vii): Other Factors.

The USD has been the subject of a public meeting held by the Ohio EPA on July 28, 1999. The City of Columbus appears to be in support of, not in opposition to, the USD request for the Pen West Area. No public comments have been presented to Ohio EPA which question the accuracy of the information gathered regarding the USD request, or which provide additional factual information to suggest that the USD will not be protective of public health, safety and the environment. However, several comments have been received from concerned citizens which suggest that residual soil and groundwater contamination is present at various properties within the Pen West Area, (in particular, the former Ohio State Penitentiary), and that these

Mr. Thomas Mignery
Approval of USD, Pen West Area, Columbus, Ohio

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properties may contain contaminants of concern or may involve conditions (underground storage tanks) that may still require remediation in order for them to be protective of public health and the environment. It should be noted that the issuance of a USD for the Pen West area does not imply that any NFA letter(s) that are submitted through the VAP for various properties within the Pen West Area, will necessarily receive a covenant not to sue (CNS) from the Ohio EPA. All properties within the Pen West USD Area that seek a CNS will be required by the Ohio EPA to demonstrate eligibility for participation within the VAP, and to achieve the VAP applicable standards in order to receive a CNS.

Based on the information discussed above, and that additional factors for consideration of the USD request have been satisfied, the ground water cleanup requirements applicable to the properties identified as being located entirely within the Pen West Area USD are those contained in OAC 3745-300-10 for a USD.

This USD letter pertains to parcels that lie wholly within the boundary of the Pen West Area. The USD submittal contained a list of permanent parcel numbers provided by the CP and a map of the area of Columbus where these parcels are located (Attachment 1). The description of the USD area was provided to Ohio EPA by the CP and Volunteer in an electronic format known as ArcInfo GIS. This electronic format contains two map layers. One layer contains the boundaries for the USD area and the second map layer contains the parcels located in the Pen West Area. The CP and Volunteer identified the boundary of the Pen West Area by outlining the outer boundary of each perimeter parcel. Based on the information provided by the CP, the Pen West Area USD consists of 84 complete parcels; no partial or incomplete parcels are included in the Pen West Area. This ArcInfo GIS map of the Pen West Area is contained on a CD ROM which will be maintained by Ohio EPA. In addition to a demonstration of no significant change of USD criteria as required below, the use of this USD as an applicable ground water standard is contingent upon making a demonstration to Ohio EPA, and receiving Ohio EPA's concurrence, that a property is located entirely within the boundary of the Pen West Area USD.

This USD letter is not a final action of the Director. The use of the USD to establish applicable ground water standards for any property located within the Pen West Area USD is contingent upon a determination by Ohio EPA, at the time of issuance of any Covenant Not to Sue (CNS) for any property within the Pen West Area USD, that no significant change of circumstances has occurred regarding the USD criteria contained in OAC 3745-300-10(D). In addition, the use of the USD as an applicable ground water standard is contingent upon demonstration in an NFA Letter for any property within the Pen West Area USD, that the property is eligible for participation in the VAP, pursuant to ORC Section 3746.02 and OAC 3745-300-02. To the extent that any property located within the Pen West Area USD, or any portion thereof, is determined to be ineligible for the VAP, the USD criteria and other VAP cleanup standards contained in ORC Chapter 3746 and OAC

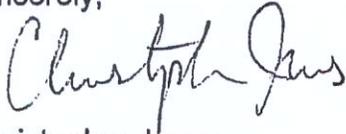
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Chapter 3745-300 would be inapplicable to that property, pursuant to ORC Section 3746.02, and OAC 3745-300-10(D)(1) respectively. This USD letter pertains only to the properties identified herein, and therefore, is not applicable to any other property.

Thank you for your interest in the VAP. If you have any questions concerning this letter, please contact Jenifer Kwasniewski of my staff at (614) 644-2279.

Sincerely,



Christopher Jones
Director, Ohio Environmental Protection Agency

cc. Jenifer Kwasniewski, Manager, DERR-CO
Cindy Hafner, Chief, DERR, Chief, CDO
Amy Yersavich, Unit Supervisor, DERR-CO
Jeff Patzke, Manager, DDAGW-CO
Joe Koncelik, Legal
Gregory Lashutka, Mayor of Columbus

Attachment

Attachment B
New ODNR Well Logs



State of Ohio Environmental Protection Agency

INTEROFFICE MEMORANDUM

TO: Robin Roth through Ken Schultz, DERR-CDO

FROM: Jason Reed through Linnea Saukko, DDAGW-CDO

DATE: September 17, 2009

PROPERTY: Pen West Area, Columbus (Franklin County)
Voluntary Action Program ID # 99USD015

SUBJECT: Pen West Area Urban Setting Designation (USD), Second Five-Year Protectiveness Verification Well Log Search

INTRODUCTION

The Division of Emergency and Remedial Response (DERR) requested that the Division of Drinking and Ground Waters (DDAGW) assist in performing the second five-year protectiveness verification for the Pen West Area USD approved by Ohio EPA October 26, 1999. The periodic review of the continuing protectiveness of a USD is authorized by OAC 3745-300-10(C)(4) to verify that some of the key assumptions relied upon in the USD application are still valid. As part of the review, DERR asked DDAGW to determine whether any additional potable-use wells have been installed within one-half mile of the Pen West Area USD boundary depicted on the attached Figure 1 since the previous five-year verification was completed May 2, 2005.

COMMENTS

DDAGW staff reviewed well logs in the Ohio Department of Natural Resources (ODNR) Division of Water On-line well log search system on September 16, 2009. While all well logs get entered into the ODNR system, there may be a lag of several months between the date a well is drilled and the date the log is entered into the well log system.

The search was conducted for logs of wells installed from January 1, 2004, to September 16, 2009. The results of the search indicate that no potable-use wells logs were on record in the ODNR On-line well log search system within one-half mile of the Pen West Area USD boundary corresponding to that time interval.

cc: Jeff Patzke, DDAGW-CO
Work Request # 8333337956

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

1000090

WELL LOCATION

CONSTRUCTION DETAILS

County Franklin Township Columbus

Owner/Builder Pohico Headquarters
(Circle One or Both) First Last

Address of Well Location 120 west Gay Street
Number Street Name

City Columbus Zip Code +4 _____

Permit No. N/A Section/Lot No. _____
(Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well Geothermal Test

N X _____ +/- _____ ft. or m
S Y _____ +/- _____ ft. or m

Elevation of Well _____ +/- _____ ft. or m

Datum Plain: NAD27 NAD83 Elevation Source _____

Source of Coordinates: GPS Survey Other _____

Rotary Cable Augered Driven Other _____

BOREHOLE/CASING (measured from ground surface)

1 Borehole Diameter 7 7/8 inches Depth 110 ft.
Casing Diameter 5 in. Length 112 ft. Thickness .250 in.

2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 2 ft. _____ ft.

Type 1 Steel 1 Galv. 1 PVC 1 _____
2 _____ 2 _____ 2 Other _____

Joints 1 Threaded 1 Welded 1 Solvent 1 _____
2 _____ 2 _____ 2 Other _____

SCREEN

Diameter _____ Slot Size _____ Screen Length _____ ft.

Type _____ Material _____

Set Between _____ ft. and _____ ft.

GRAVEL PACK (Filter Pack)

Material/Size _____ Volume/Weight Used _____

Method of Installation _____

Depth: Placed FROM _____ ft. TO _____ ft.

GROUT

Material Bensonal Volume/Weight Used 148 gal. 450 lbs.

Method of Installation Pressure/Tremie

Depth: Placed FROM 0 ft. TO 110 ft.

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: _____ Long: _____

North 39° 57' 48.1"

South 83° 00' 14.7"

West Intersection of Gay Street & Marconi Blvd.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.
Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.

| | From | To |
|---------------------------|---------|-----|
| Sandy Top Soil | 0 | 3 |
| SAND with pebbles | 3 | 6 |
| SAND & clay | 6 | 40 |
| Sand with Boulders | 40 | 41 |
| GRAVEL | 41 | 43 |
| Tight Sand & GRAVEL-clay | 43 | 48 |
| Loose Sand & GRAVEL | 48 | 55 |
| Tight Sand/clay/GRAVEL | 55 | 62 |
| HARD Gray Clay | 62 | 95 |
| Gray shale | 95 | 106 |
| HARD DARK BROWN Limestone | 106 | 130 |
| GRAY Limestone Fractured | 130 | 180 |
| 1st water | 110 ft. | |

WELL TEST*

Pre-Pumping Static Level 34.8 ft. Date 5-5-08

Measured from: Top of Casing Ground Level Other _____

Air Bailing Pumping* Other _____

Test Rate 105 gpm Duration of Test 2 hrs.

Feet of Drawdown 7.84 ft. Sustainable Yield 400 gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? Yes No Flowing Well? Yes No

Quality clear - sulphur odor

PUMP/PITLESS

Type of pump _____ Capacity _____ gpm

Pump set at _____ ft. Pitless Type _____

Pump installed by _____

I hereby certify the information given is accurate and correct to the best of my knowledge.

Drilling Firm JACKSON & SONS DRILLING CO.

Address 3401 St. Rt. 13 South

City, State, Zip MANSFIELD, OH. 44904

Signed James D. Jackson Date 5-18-08

ODH Registration Number 606

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion 4-30-08 Total Depth of Well 180 ft.

WELL LOG AND DRILLING REPORT

DNR 7802.05e

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number

2018478

Page 1 of 1 for this record.

| WELL LOCATION | CONSTRUCTION DETAILS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--------------------|---------|-----------|------|----|-------|--|------|---|---|--|--|--------------------|---|----|------|---------|------|----|----|--|--|----------------|----|----|--|--|----------------|----|----|------|---------|------|----|----|------|--------|-----------|----|----|------|--|----------------|----|-----|--|--|-----------------|-----|-----|-------|--|-----------|-----|-----|------|--|-----------|-----|-----|
| County <u>FRANKLIN</u> Township <u>COLUMBUS</u> | Drilling Method: <u>ROTARY</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Owner/Builder <u>GOODALE PARK</u> | BOREHOLE/CASING (Measured from ground surface) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address of Well Location <u>120 W GOODALE ST</u> | 1 { Borehole Diameter <u>8</u> inches Depth <u>118.5</u> ft. Casing Diameter <u>5</u> in. Length <u>120</u> ft. Thickness <u>0.265</u> in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City <u>COLUMBUS</u> Zip Code +4 _____ | 2 { Borehole Diameter <u>5</u> inches Depth <u>41.5</u> ft. Casing Diameter _____ in. Length _____ ft. Thickness _____ in. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Permit No. _____ Section; _____ and/or Lot No. _____ | Casing Height Above Ground <u>1.5</u> ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Use of Well <u>AGRIC/IRRIG</u> | Type { 1: <u>PVC</u> 2: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Coordinates of Well (Use only one of the below coordinate systems) | Joints { 1: <u>CertaLok</u> 2: _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| State Plane Coordinates | SCREEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N <input type="checkbox"/> X _____ +/- _____ ft. | Diameter _____ in. Slot Size _____ in. Screen Length _____ ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S <input type="checkbox"/> Y _____ +/- _____ ft. | Type _____ Material _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Latitude, Longitude Coordinates | Set Between _____ ft. and _____ ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Latitude: <u>39.976983</u> Longitude: <u>-83.0056</u> | GRAVEL PACK (Filter Pack) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Elevation of Well in feet: <u>775</u> +/- _____ ft. | Material/Size _____ Vol/Wt. Used _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Datum Plane: <input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83 Elevation Source <u>GPS</u> | Method of Installation _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Source of Coordinates: <u>GPS</u> | Depth: Placed From: _____ ft. To: _____ ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Well location written description: <u>CORNER OF BUTTLES AVE. AND PARK ST.</u> | GROUT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Material <u>Bentonite/polymer slurry</u> Vol/Wt. Used <u>240 gal-water/400 lb-grt</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Method of Installation <u>Pumped w/Tremie pipe</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Depth: Placed From: <u>118</u> ft. To: <u>0</u> ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments on water quality/quantity and well construction: <u>HARDNESS = 30GPG IRON = 3PPM PH = 7.0 SULFUR = 0 MG = <.05 TDS = 800</u> | DRILLING LOG* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Texture</th> <th>Formation</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>BROWN</td> <td></td> <td>CLAY</td> <td>0</td> <td>7</td> </tr> <tr> <td></td> <td></td> <td>SANDGRAVELBOULDERS</td> <td>7</td> <td>19</td> </tr> <tr> <td>GRAY</td> <td>POTTERS</td> <td>CLAY</td> <td>19</td> <td>21</td> </tr> <tr> <td></td> <td></td> <td>SANDGRAVELCLAY</td> <td>21</td> <td>57</td> </tr> <tr> <td></td> <td></td> <td>SANDCLAYGRAVEL</td> <td>57</td> <td>86</td> </tr> <tr> <td>GRAY</td> <td>POTTERS</td> <td>CLAY</td> <td>86</td> <td>91</td> </tr> <tr> <td>GRAY</td> <td>BROKEN</td> <td>LIMESTONE</td> <td>91</td> <td>94</td> </tr> <tr> <td>GRAY</td> <td></td> <td>CLAYSANDGRAVEL</td> <td>94</td> <td>105</td> </tr> <tr> <td></td> <td></td> <td>SAND AND GRAVEL</td> <td>105</td> <td>113</td> </tr> <tr> <td>BROWN</td> <td></td> <td>LIMESTONE</td> <td>113</td> <td>124</td> </tr> <tr> <td>GRAY</td> <td></td> <td>LIMESTONE</td> <td>124</td> <td>160</td> </tr> </tbody> </table> | Color | Texture | Formation | From | To | BROWN | | CLAY | 0 | 7 | | | SANDGRAVELBOULDERS | 7 | 19 | GRAY | POTTERS | CLAY | 19 | 21 | | | SANDGRAVELCLAY | 21 | 57 | | | SANDCLAYGRAVEL | 57 | 86 | GRAY | POTTERS | CLAY | 86 | 91 | GRAY | BROKEN | LIMESTONE | 91 | 94 | GRAY | | CLAYSANDGRAVEL | 94 | 105 | | | SAND AND GRAVEL | 105 | 113 | BROWN | | LIMESTONE | 113 | 124 | GRAY | | LIMESTONE | 124 | 160 |
| Color | Texture | Formation | From | To | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BROWN | | CLAY | 0 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SANDGRAVELBOULDERS | 7 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAY | POTTERS | CLAY | 19 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SANDGRAVELCLAY | 21 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SANDCLAYGRAVEL | 57 | 86 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAY | POTTERS | CLAY | 86 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAY | BROKEN | LIMESTONE | 91 | 94 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAY | | CLAYSANDGRAVEL | 94 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | SAND AND GRAVEL | 105 | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BROWN | | LIMESTONE | 113 | 124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GRAY | | LIMESTONE | 124 | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WELL TEST * | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pre-Pumping Static Level <u>51.4</u> ft. Date <u>7/30/2008</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured from <u>TOP OF CASING</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pumping test method <u>PUMPING</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Rate <u>25</u> gpm Duration of Test <u>8</u> hrs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Feet of Drawdown <u>0.2</u> ft. Sustainable Yield <u>25</u> gpm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *(Attach a copy of the pumping test record, per section 1521.05, ORC) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Is Copy Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flowing Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMP/PITLESS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type of pump <u>SUBMERSIBLE</u> Capacity <u>15</u> gpm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pump set at <u>125</u> ft. Pitless Type <u>SPOOL - BAKER MONITOR</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pump installed by <u>BEINHOWER BROS.</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I hereby certify the information given is accurate and correct to the best of my knowledge. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Drilling Firm <u>BEINHOWER BROS. WELL DRILLING</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Address <u>12733 SR Rt. 62</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| City, State, Zip <u>JOHNSTOWN OH 43031</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signed <u>BRAD ULERY</u> Date <u>9/8/2008</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (Filed Electronically) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ODH Registration Number <u>0308</u> | Aquifer Type (Formation producing the most water) <u>LIMESTONE</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Date of Well Completion <u>7/31/2008</u> Total Depth of Well <u>160</u> ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of drilling.
Distribute copies of this record to Customer, and Local Health Department.

Attachment C
Water Use Surveys

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Columbus
Date: 9/18/09 and 9/21/2009
Contact Person: Lynn Kelly
Title: Water Supply and Treatment Coordinator
Phone: (614) 645-7100

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

There are no plans to develop ground water for potable purposes within ½-mile of the Pen West Area USD.

Comments:

The South Well Field is located more than six miles south of the Pen West USD and south of I-270. The proposed increase to the water supply by 15 million gallons per day, using wells as well as the construction of additional above ground surface water storage reservoirs (besides Griggs and O'Shannassy Reservoirs) in northwest Delaware County, remains in the planning phase. No new wells have been installed. Columbus has no plans to develop ground water in the vicinity of the USD or north of I-270.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Ohio-American Water Co.

Date: 9/16/09

Contact Person: Thomas Schwing

Title: Water Quality Specialist

Phone: (614) 882-6586 Ext. 1001

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Ohio-American Water operates five public water supply systems (Worthington Hills, Blacklick Estates, Timberbrook, Huber Ridge and Lake Darby). Each water system consists of a well field, distribution system and treatment works.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Bexley

Date: 9/16/09

Contact Person: Bill Harvey

Title: Public Water Administrative Contact

Phone: (614) 559-4222

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

The city of Bexley receives its water from the city of Columbus municipal water system. Mr. Harvey was not aware of any private wells in use.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Clinton Township
Date: 9/16/09 and 9/22/09
Contact Person: Rebecca Christian / Jack Wilson
Title: Township Clerk
Phone: (614) 471-6854

Open 9 A.M. – 3 P.M. Monday through Friday.

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Not aware of any plans.

Comments:

Most of the township is supplied by the city of Columbus municipal water system including most of the residence along Cooke Road. There are not many private wells remaining.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Franklin County

Date: 9/16/09

Contact Person: Charlie McFarland

Title: Water Operations Superintendent

Phone: (614) 877-9830 / Cell Phone (614) 419-1595

1. Is the public water system meeting current water use demands?

Yes. Water is supplied by the city of Columbus municipal water system.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Franklin County owns and maintains water lines outside off the city of limits including Lincoln Village, Rickenbacker AFB, Lockbourne and Sanitary District 4 – west of I-270/I-70 by West Broad Street.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Grandview Heights

Date: 9/22/09

Contact Person: Debbie Nicodemus / Pat Bowman

Title: City Administrative Secretary / Director of Administration

Phone: (614) 488-3159, Ext. 3

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

The city of Grandview Heights is served by the city of Columbus municipal water system. The City engineer is Marci Bland with EMH&T, (614) 775-4237.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Grove City
Date: 9/16/09 & 9/18/09
Contact Person: Sharon Reichard
Title: Director of Public Service
Phone: (614) 277-1107

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Grove City purchases water from the city of Columbus municipal water system. In conjunction with Jackson Township, Grove City is adding a 1.25 million gallon water storage tank in the area of 665 Hahn Road to expand capacity for the fire department.

They are not a master meter controller; however, they do services sewer lines in the area.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Hamilton Township

Date: 9/16/09

Contact Person: Chris Hann

Title: Township Trustee

Phone: (614) 491-0812 / Cell Phone (614) 989-4899

1. Is the public water system meeting current water use demands?

Yes. Housing developments are supplied by the city of Columbus, and the largest municipality, Obetz, buys water the city of Columbus. More rural areas including farms and the village of Reece Station are on well water.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Most of Hamilton Township is on private wells. Hamilton Meadows subdivision is served by the city of Columbus municipal water system. New developments are on Obetz or Columbus water. Columbus is expanding its wellfield and has a wellhead protection area extending into this community.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Jackson Township
Date: 9/16/09
Contact Person: Nancy Fisher for Mike Lilly
Title: Township Administrator
Phone: (614) 875-2742

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Jackson Township has no public water supply system. Residents are on private wells. The city of Columbus requires properties to be annexed into the corporate city limits in order to tap into its public water supply system.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Madison Township

Date: 9/16/09

Contact Person: Larry Flowers

Title: Township Administrator

Phone: (614) 836-5308

1. Is the public water system meeting current water use demands?

Not Applicable. The Township is served by the private Ohio-American water system and not by a municipal system.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Madison Township is served by Ohio-American water system and private wells.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Marble Cliff

Date: 9/18/09 and 9/22/09

Contact Person: Cindy McKay

Title: Fiscal Officer

Phone: (614) 486-6993 Daily 9A.M. to 12-noon.

1. Is the public water system meeting current water use demands?

Yes.

Marble Cliff receives its water from the city of Columbus municipal water system.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

None.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Mifflin Township

Date: 9/16/09

Contact Person: Nancy White

Title: Fiscal Officer

Phone: (614) 471-4494 Ext. 21

1. Is the public water system meeting current water use demands?

No. Mifflin Township does not have a public water system; they are on private wells or truck in water.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

Not Applicable.

Comments:

Due to the city of Columbus' annexation policy it is not possible to connect to the city of Columbus municipal water system along Stelzer Road.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Norwich Township

Date: 9/16/09 & 9/17/09

Contact Person: Wayne Warner

Title: Township Administrator

Phone: (614) 876-7694

Jamie Miles – Mr. Warner is out today; try to return the call on Thursday morning (9/17/09).

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Some of the developments get water from the Ohio-American Water Co. and others from the Columbus municipal water system. There may be a few scattered private wells, but not many.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Obetz

Date: 9/16/09

Contact Person: Marty Ryan

Title: Water Superintendent

Phone: (614) 491-5733

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

The village of Obetz operates a water wellfield with two supply wells, distribution system and treatment works. Obetz is also partially served by the city of Columbus municipal water system.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Perry Township
Date: 9/16/09
Contact Person: Brian Shonkwiler
Title: Township Roads Superintendent
Phone: (614) 889-2669

1. Is the public water system meeting current water use demands?

Yes, as far as Mr. Shonkwiler knows.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Perry Township is small and fragmented. The Township area is served by the city of Columbus municipal water system including Brookside Estates and some residential homes. The Worthington Hills subdivision is supplied by the private Ohio-American water system. Private water wells are also used in the southern part of the Township along Henderson Road.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Truro Township

Date: 9/16/09

Contact Person: Bob Stapleton

Title: Township Administrator

Phone: (614) 866-7391 Ext. 4

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

Truro Township receives its water from the city of Reynoldsburg who buys it from the city of Columbus municipal water system with water from Hoover Dam. There are about 350 houses to the southwest of Reynoldsburg who purchase water from the private Ohio-American water system, and there are a few residents using private wells.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Upper Arlington

Date: 9/22/09

Contact Person: Tom Komlanc or Jim Palmer

Title: City Engineer / Engineering Technician

Phone: (614) 583-5360

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

The city of Upper Arlington receives water from the city of Columbus municipal supply. The City has a few non-potable wells equipped with water cannons for irrigation in their parks. Old lead and galvanized water lines are being replaced.

Public Water Supply/USD Verification Telephone Survey

Name of Municipality: Valleyview

Date: 9/16/09 and 9/22/09

Contact Person: Tom Watkins

Title: Mayor

Phone: (614) 279-5630 / Cell Phone (614) 561-3066

Clerk of Courts - Open Monday and Wednesday 10A.M. – 2P.M and Tuesday and Thursday 2P.M. – 6P.M.

1. Is the public water system meeting current water use demands?

Yes.

2. Are there any future plans to develop ground water for potable purposes near the urban setting designation area?

No.

Comments:

The village of Valleyview is supplied by the city of Columbus municipal water system.