

Case No: 2008-00380



Superintendent
Phillip Ward

Commissioners

**Deputy
Superintendent**
Russell D. Rose

OLDHAM COUNTY WATER DISTRICT

Gus Daeuble
Melvin Milburn
Jody Curry
Jay Hall
Wm. Robert Durbin

PO BOX 51
Buckner, Kentucky 40010
502-222-1690 FAX - 502-222-5701

RECEIVED

SEP 11 2008

**PUBLIC SERVICE
COMMISSION**

September 10, 2008

Ms. Stephanie Stumbo
Executive Director
Public Service Commission
211 Sower Blvd.
PO Box 615
Frankfort, KY 40601

RE: Certificate of Public Convenience and Necessity
Water System Improvements Project

Dear Ms. Stumbo,

Please find enclosed the Certificate of Public Convenience and Necessity checklist for the Oldham County Water District. Included with this submittal are ten (10) copies of the filing requirement checklist along with 3 sets of plans and specifications (each set with 4 copies of each construction contract) for the above referenced projects. These projects include (1) a 24" raw water main and a 30" and 36" transmission main, (2) water treatment plant upgrades and (3) 2 new raw water wells. If you have any questions, please do not hesitate to contact me at (502) 222-1690.

Thank you,

Phillip Ward

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SEP 11 2008

PUBLIC SERVICE
COMMISSION

2008-00380

**Water System Improvements
Oldham County Water District**

**Application for
Certificate of Public Convenience and
Necessity – Construction**

September 5, 2008



Prepared by GRW Engineers
GRW Project No. 3257-09
September 5, 2008

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CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY - CONSTRUCTION

Filing Requirements Checklist

(Applicable Authority: KRS 278.020(1), 807 KAR 5:001, Sections 8 and 9(2))

Case No. _____ Applicant Name _____ Received Date _____ Form Circulation Date _____

Instructions:

- 1) Each division noted by checkmark () is to complete its review and pass on within two days of receipt.
- 2) This form is to list only the specific filing deficiencies as identified in the regulations. If additional information is needed, an information request must be issued.
- 3) Staff member should use initials and list date review is completed.
- 4) Return to Docket Section following review by all divisions.

Reviewed by following Divisions:		<u>Date</u>	<u>Staff Member</u>
_____	Filings	_____	_____
_____	Financial Analysis	_____	_____
_____	Engineering	_____	_____
_____	Legal	_____	_____

<u>Division Responsible</u>	<u>Law/Regulation</u>	<u>Filing Requirement</u>
	<u>807 KAR 5:001:</u>	
Filings	Section 8(1)	Full name and post office address of applicant and a reference to the particular provision of law requiring Commission approval.
Filings	Section 8(2)	The original and 10 copies of the application with an additional copy for any party named therein as an interested party.
Legal	Section 8(3)	If applicant is a corporation, a certified copy of the Articles of Incorporation and all amendments thereto <u>or</u> if the articles were filed with the PSC in a prior proceeding, a reference to the style and case number of the prior proceeding.

Requirement Met		Waiver Requested	Approve Waiver?	
Yes	No		Yes	No

Division Responsible	Law/Regulation	Filing Requirement	Requirement Met		Waiver Requested	Approve Waiver?	
			Yes	No		Yes	No
Engineering	Section 9(2)	(a) The facts relied upon to show that the proposed new construction is or will be required by public convenience or necessity.					
Engineering & Legal		(b) Copies of franchises or permits, if any, from the proper public authority for the proposed new construction or extension, if not previously filed with the commission.					
Engineering		(c) A full description of the proposed location, route, or routes of the new construction or extension, including a description of the manner in which same will be constructed, and also the names of all public utilities, corporations, or persons with whom the proposed new construction or extension is likely to compete.					
Engineering		(d) Three (3) maps to suitable scale (preferably not more than two (2) miles per inch) showing the location or route of the proposed new construction or extension, as well as the location to scale of any like facilities owned by others located anywhere within the map area with adequate identification as to the ownership of such other facilities.					
Financial Analysis		(e) The manner, in detail, in which it is proposed to finance the new construction or extension.					
Engineering & Financial Analysis		(f) An estimated cost of operation after the proposed facilities are completed.					

THE FOLLOWING ITEM IS NOT REQUIRED TO BE FILED WITH AN APPLICATION FOR A CERTIFICATE TO CONSTRUCT BUT IDEALLY SHOULD BE FILED WITH THE APPLICATION TO EXPEDITE ITS PROCESSING:

Engineering	KRS 322.340	Engineering plans, specifications, plats and report for the proposed construction. The engineering documents prepared by a registered engineer, requires that they be signed, sealed, and dated by an engineer registered in Kentucky.					
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Engineering - Section 8(1)

Full name and post office address of applicant and a reference to the particular provision of law requiring Commission approval.

Post Office Box
Oldham County Water District
P.O. Box 51
Buckner, KY 40010

Law Requiring Commission Approval
KRS 278.020(1)

Engineering - Section 8(2)

The original and 10 copies of the application with an additional copy for any party named therein as an interested party.

The required number of copies one (1) original and ten (10) copies are provided as requested.

Engineering - Section 8(3)

If applicant is a corporation, a certified copy of the Articles of Incorporation and all amendments thereto or if the articles were filed with the PSC in a prior proceeding, a reference to the style and case number of the prior proceeding.

FOR Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 1

Cancelling U.B.C. Ky. No. 1

Original Sheet No. 1

OLDHAM COUNTY W.D.

RULES AND REGULATIONS

**OLDHAM COUNTY WATER DISTRICT
BY-LAWS, RULES AND REGULATIONS**

The Commissioners of the Oldham County Water District of Oldham County, Kentucky, at a meeting August 1, 1989, adopted the following By-Laws and Regulations.

ARTICLE 1. NAME: The name of this District is the Oldham County Water District. The principal office of this District shall be located at Buckner, Kentucky, but the District may maintain offices and places of business at such other places within the State as the Commissioners may designate.

ARTICLE 2. SEAL: The seal of the District shall have inscribed thereon the name of the District and such other inscription as the Commissioners may designate and adopt. The Secretary of the District shall have custody of the seal.

ARTICLE 3. MEMBERSHIP: The customers are the members off this District. The duties of the members are set out hereinafter. A customer must enter into a written users agreement for water service at the office of the District. Said agreement, including service received thereunder, is not assignable by the customer, unless prior written approval is obtained from the District.

ARTICLE 4. COMMISSIONERS: The Commission is a body corporate as approved by KRS 74.070 and is created and its powers and duties are coincident with applicable Kentucky Statutes. The business and affairs of the District shall be conducted by Commissioners who have been appointed pursuant to the statute. The Commissioners of the District shall be selected annually by the County Judge of Oldham County, Kentucky, during the first month of the fiscal year, or at the annual meeting as fixed by the Secretary.

ARTICLE 5. MEETINGS: The Commissioners shall meet on the first Tuesday of every month unless otherwise recorded in the minute book. The Chairman and/or the Secretary may call

PUBLIC SERVICE COMMISSION MANAGER
AUG 01 1989
PURS. BY

DATE OF ISSUE August 1 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingentus
Name of Officer

Chairman P. O. Box 51, Buckner, Ky.
Title Address 40010

FOR Oldham County Water District

"P.S.C. Ky. No." 2

1st Revised Sheet No. 2

Cancelling U.R.C. Ky. No. 1

Original Sheet No. 2

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

such meetings and special meetings by giving the other Commissioners reasonable notice by telephone. There are five (5) Commissioners, and three (3) Commissioners constitute a quorum.

ARTICLE 6. OFFICERS: Officers shall be elected annually at the first meeting of the fiscal year, but in the event the election is not to be held, officers shall continue to hold office until an election is requested by one (1) of the Commissioners.

ARTICLE 7. SALARIES: The Commissioners shall receive an annual salary to be fixed by the County Court and paid out of the Water District funds as provided by KRS 74 and further as provided by law.

ARTICLE 8. BONDS: The District shall pay for the purchase of the fidelity bond of each Commissioner required by the Court and the position fidelity bond of the Treasurer.

ARTICLE 9. VACANCIES: Vacancies of the Commission shall be filled by the County Court.

ARTICLE 10. TREASURER'S DUTY: The Treasurer of the Commission shall pay out of the funds of the Commission only upon presentation of warrants signed by the Chairman and countersigned by the Secretary of the Commission. As compensation for his services the Treasurer shall receive an amount fixed by the Commission, not to exceed Two Hundred (\$200.00) Dollars. He shall execute bond to the Commission in an amount fixed by the Commission.

PUBLIC SERVICE COMMISSION

ARTICLE 11. POWERS: The Commission may ~~and~~ ^{and} install pipe and water laterals, and operate a water system. The Commission shall be a body corporate for all purposes, and may make contracts for the water district with municipalities and persons for a water supply, and for the sale of water and for all other purposes connected with its business. It may ⁰¹¹ prosecute and defend suits, hire necessary employees, including Commissioners for duties to which their salary limitation herein

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE AUGUST 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman P. O. Box 51, Buckner, Ky.
Title Address 40010

FOR - Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 3

Cancelling P.S.C. Ky. No. 1

Original Sheet No. 3

OLDHAM COUNTY W.O.

RULES AND REGULATIONS

shall not apply, and to do all acts necessary to carry on the work. It may establish and revise a fiscal year. The Commission shall have all powers provided by Kentucky Statutes, including KRS 74 and KRS 106.

ARTICLE 12. RATES: The Commission may request the Public Service Commission to adjust water rates, and make reasonable regulations for the disposition and consumption of water.

ARTICLE 13. DISPOSITION OF ASSETS: In the event the District terminates business by reason of liquidation or sale of its assets, and in the event there is a sum of money remaining after the District has sold its property and paid its debts of every kind, including all bonded indebtedness, then the District shall seek court approval of a distribution of the money based on the following plan:

(a) One-half (1/2) of the said money shall be distributed to the original subscribers, their heirs, devisees and assigns in direct ratio to the connection fees paid by them prior to construction of the original line;

(b) One-half (1/2) of the said money shall be distributed to each customer, his heirs, devisees and assigns, who has at any time purchased water from the District, in direct ratio to the total water bill the customer paid during the entire operation of the system.

The District does not in any way represent that this means of disposing of the assets of the District in the event of liquidation of sale will be approved by the Court.

PUBLIC SERVICE COMMISSION

ARTICLE 14. MISCELLANEOUS: The Commission may acquire a water line or system operating in the District as provided by KRS 74.100, or other facilities as may be necessary in the opinion of the District.

AUG 01 1989

ARTICLE 15. The Commission may condemn rights-of-way as provided by KRS 416.010 to 416.080 and KRS 106.240,

DATE OF ISSUE August 1, 1989
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DATE EFFECTIVE August 1, 1989
Month Day Year

Carl Klingenfus
PUBLIC SERVICE COMMISSION MANAGER

ISSUED BY Carl Klingenfus
Name of Officer

Chairman P. O. Box 51, Buckner, KY.
Title Address 40010

FOR — Oldham County Water District

"P.S.C. Ky. No." 2

1st Revised Sheet No. 4

Cancelling H.R.C. Ky. No. 1

Original Sheet No. 4

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

all as provided by law, these and other statutes granting the right of eminent domain.

ARTICLE 16. All buildings, tanks, equipment are to be inspected at least once per year, and a file kept noting the dates of inspection(s), condition of building, tank or equipment; and corrective procedures taken, if needed.

ARTICLE 17. The Commissioners will not, without the consent of the bond holders and the Public Service Commission, take any action with respect to diminishing the territorial limits of the District and will notify the Public Service Commission of any proposal or petition to diminish the territorial limits of the District as soon as the Commission has acquired knowledge thereof.

ARTICLE 18. The Commission may finance the acquisition and the construction of authorized works of improvement by the issuance of (1) special assessment bonds; (2) revenue bonds, or (3) a combination special assessment and revenue bonds, payable primarily from water revenue supplemented, when necessary, by special assessments. If the combination special assessment and revenue bond is used, the special assessment will not be levied, nor will the lien thereof be attached until such time as it is necessary to make up any deficit in the water revenue to meet annual obligations.

ARTICLE 19. The Commission may issue refunding bonds as provided by KRS 74.320 and 74.330 and KRS 106, or as may be provided by other laws of Kentucky and the United States.

ARTICLE 20. The Commission shall keep ~~of record~~ ^{PUBLIC SERVICE COMMISSION} of the time spent by all employees employed on an hourly basis and each item of expense incurred in connection with the District.

ARTICLE 21. The fees of officers for services rendered in such capacity shall be the same as fees ~~per now~~ ^{AUG 01 1989} allowed by law for similar services in other cases. Such fees shall be taxed as a part of the costs and paid on order of the Court. Fees or

BY: [Signature]
PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman P. O. Box 51, Buckner, Ky.
Title Address 40010

FOR — Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 5

Cancelling P.S.C. Ky. No. 1

Original Sheet No. 5

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

compensation for any service and otherwise provided for shall be fixed and paid by the Commission.

ARTICLE 22. The Commissioners shall secure personnel to repair and maintain District property including mains, lines, meters, storage tanks, etc. when necessary, shall secure personnel to read meters and shall secure personnel to bill customers. The Commissioners may retain an attorney to represent the District. The District may enter into contracts for services, labor, material and construction as provided by law.

ARTICLE 23. The Commission may make all provisions concerning contracts for sale of water, connection charges, and other disposition of District services and assets, including the plan of collecting proceeds thereof. The system manager may at his discretion discontinue delivery of water to any delinquent customer. The District shall install, maintain and operate a main distribution pipe line or lines from the source of water supply and service lines from the main distribution pipe line or lines to the property line of each customer of the District, if the District Commission determines it is feasible to serve such customer, at which points, designated as delivery points, meters to be purchased, installed, owned and maintained by the District shall be placed. The cost of service line or lines from the main distribution pipe line or lines of the District to the property line of each customer shall be paid by the District or the customer, or both, in a manner to be determined by the Commission at the time of installation, depending upon the length of the service line. The District shall purchase and install a cut-off valve in each service line on its main distribution line or lines, such cut-off valve to be owned and maintained by the District and to be installed on some portion of the service line owned by the District. The District shall have the sole and exclusive right to the use and operation of such cut-off valve.

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
AUG 1 1989
PURSON...
SECTION 9(1)

Each service line shall connect with the District's water system at the nearest available point to the place of desired use by the District if the District's water system shall be of

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman
Title

P. O. Box 51, Buckner, Ky.
Address 40010

FOR — Oldham County Water District

"P.S.C. Ky. No." 2

1st Revised Sheet No. 6

Cancelling U.R. C. Ky. No. 1

Original Sheet No. 6

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

sufficient capacity to permit the delivery of water through a service line at that point without interfering with the delivery of water through a prior service line. If the District's water system shall be inadequate to permit the delivery of water through a service installed at such point without interfering with the delivery of water through a prior service line, by the Commission. Each customer will be required to install and own the service line from the meter to the place of use on his premises and to maintain such portion of the service line, all subject to applicable rules and regulations of the Utility Regulatory Commission.

Each customer shall be entitled to purchase from the District pursuant to such agreements as may from time to time be provided and required by the Commission such water as the customer may desire, subject however, to the provisions of these By-Laws and to such rules and regulations as may be prescribed by the Commission, provided, however, that should a customer sell or dispose of a portion of his property or subdivide the same he or the new owner of each such new tract may not demand water and taps without paying connection fees for each such tract to be served.

In the event the total water supply shall be insufficient to meet all the needs of the members or in the event there is a shortage of water, the Commission may prorate the water available among the various members on such basis as is deemed equitable by the Commission, and may also prescribe a schedule of hours covering use of water and require adherence thereto or prohibit the use of water for specified purposes.

ARTICLE 24. The Commission is authorized to secure insurance on storage tanks, if any, and such other properties as the District owns, against fire, windstorms and other calamity and liability insurance, in such amounts and with such companies as other privately-owned water systems ordinarily carry.

ARTICLE 25. The District shall own all lines and meters held by or for it, in the absence of a written agreement to the contrary.

PUBLIC SERVICE COMMISSION
OF KENTUCKY
1989

BY: [Signature]
PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman P. O. Box 51, Buckner, KY.
Title Address 40010

FOR Oldham County Water District

"P.S.C. Ky. No. 2

1 1/2 Revised Sheet No. 7

Cancelling U.B.C. Ky. No. 1

Original Sheet No. 7

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

ARTICLE 26. The Commission shall secure engineering services for an annual engineering inspection and report dealing with operation and maintenance practice if the Commission desires or if so required by any bond holder or the Federal Government as insurer of the bonds.

ARTICLE 27. The Commission may contract with any person or entity for the sale of water and if such person or entity is meter within the District boundaries, he or it is a member of the District for such time as he or it pays the District bills pertaining to such metered connection.

ARTICLE 28. All applicable Kentucky Statutes which now or may hereafter exist are incorporated herein and made a part of these By-Laws and the Commissioners may use any powers therein contained in addition to those herein set out. Any provision herein in violation of Kentucky Statute which is now or may hereafter be in effect is null and void, the remainder of these By-Laws to continue in full force and effect.

ARTICLE 29. No later than sixty (60) days after the close of each fiscal year copies of an annual audit report certified by the preparing accountant shall be promptly mailed to the Public Service Commission and to any bond holder that may have requested same in writing.

The following rules and regulations are hereby adopted subject to change by the Commission at any time. These rules and regulations are intended to supplement the bond resolution, the rate resolution, and the By-Laws:

A. All taps and connections to the mains of the District shall be made by and/or under the direction and supervision of District personnel.

B. Water service may be discontinued by the District for any violation of any rule, regulation or condition of service and especially for any of the following reasons.

PUBLIC SERVICE COMMISSION OF KENTUCKY

AUG 01 1989

BY: George Bell
PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman P. O. Box 51, Buckner, KY. 40010
Title Address

FOR Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 8

Cancelling of P.S.C. Ky. No. 1

Original Sheet No. 8

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

1. Misrepresentation in the application or contract as to the property or fixtures to be supplied or additional use to be made of water.
2. Resale or giving away of water.
3. Failure to report to the District additions to the property or fixtures to be supplied or additional use to be made of water.
4. Waste or misuse of water due to improper or imperfect service pipes and for failure to keep in suitable state of repair.
5. Tampering with meter, meter seal, service, or valves or permitting such tampering by others, removal of meter, alternating meter, connection or by-pass.
6. Connection, cross-connection, or permitting the same, of any separated water supply to premises which receive water from the District.
7. Non-payment of bills.
8. Violation of District Rules and Regulations.

C. Any customer desiring to discontinue the water service to his premises for any reason must give notice of discontinuance in writing at the business office of the District; otherwise, a customer shall be liable for all water used and service tendered by the District until said notice is received by the District.

D. Bills and notices reliant to the conduct of the business of the District will be mailed to the customer at the address listed on the users agreement unless a change of address has been filed in writing with the District; and the District shall not otherwise be responsible for delivery of any bill or notice nor ~~will the customer be~~

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE
ALL 10 1989
P.S.C. No. 1
BY Carl Klingenfus
PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman
Title

P. O. Box 51, Buckner, KY.
Address 40010

FOR Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 9

Cancelling D.R.C. Ky. No. 1

Original Sheet No. 9

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

excused from the payment of any bill of any performance required in said notice.

E. 1. Bills for water service are due and payable at the office of the District, or to any designated agent, on the date of issue. The past due date shall be the tenth day after the date of issue. Bills will be dated and mailed on the same day of each month.

2. All bills not paid on or before the past due date shall be deemed delinquent. The District may serve a customer a written final notice of said delinquency. If delinquent bills is not paid within ten (10) days after date of such final notice, the water supply to the customer may be discontinued, after notice as required by law.

F. Where the water supply to the customer has been discontinued for non-payment of delinquent bills, a charge of Ten (\$10.00) Dollars will be made for reconnection of water service, but the reconnection will not be made until after all delinquent bills and other charges, if any owed by the customer to the District, have been paid. If the meter is removed the charge will be Twenty-Five (\$25.00) Dollars for reconnection.

G. The District reserved the right to request a nominal sum be placed on deposit with the District for the purpose of establishing or maintaining any customer's credit, subject to rules of the utility Regulatory Commission. However, in no event shall the required deposit be in excess of two-twelfths (2/12) of the estimated annual bill of such customer, pursuant to 807 KAR 5:006E, Section 7.

AUG 01 1989

H. All meters shall be installed, renewed, and maintained at the expense of the District and the District reserves the right to determine the size and type of meter used.

BY: [Signature]
PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfuss
Name of Officer

Chairman P. O. Box 51, Buckner, Ky.
Title Address 40010

FOR - Oldham County Water District

"P.S.C. Ky. No." 2

1st Revised Sheet No. 10

Cancelling U.R.C. Ky. No. 1

Original Sheet No. 10

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

- I. Upon written request of any customer, the meter serving said customer shall be tested by the District. Whenever a meter is found to be more than two percent (2%) fast, additional tests shall be made at once to determine the average error of the meter. Said tests shall be made in accordance with the Utility Regulatory Commission regulations applicable to the type of meter involved. The burden of maintaining measuring equipment so that it will register accurately is upon the utility; therefore, if meters are found upon test to register fast and if time for periodic test has overrun to the extent that one-half (1/2) of the time elapsed since the last previous test exceeds twelve (12) months, the refund shall be for twelve (12) months as specified by 807 KAR 5:006E, Sec. 9(2) and in addition thereto, a like refund for those months exceeding the periodic test period; provided, however, that the commission may relieve the utility from this requirement in any particular case in which it is shown that the failure to make the periodic test was due to causes beyond the utility's control.
- J. When meter has ceased to register, or meter reading could not be obtained, the quantity of water consumed will be based upon an average of the prior three (3) months consumption and the conditions of water service prevailing during the period for which the meter failed to register.
- K. The District shall make all reasonable efforts to eliminate interruption of service and ~~public service~~ ^{PUBLIC SERVICE COMMISSION} interruptions occur will endeavor to reestablish service with the shortest possible delay. When the ~~service~~ ^{service} is interrupted all consumers affected by such interruption will be notified in advance whenever it is possible to do so.
- L. The District shall in no event be held responsible for any claim made against it by reason of the breaking of any mains or service pipes or by reason of any other ~~interruption of the supply of water caused by the failure~~ ^{PUBLIC SERVICE COMMISSION MANAGER}

AUG 1 1989

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman P. O. Box 51, Buckner, KY.
Title Address 40010

FOR - Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 11

Cancelling U.R.C. Ky. No. 1

Original Sheet No. 11

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

of machinery or stoppage for necessary repairs. No person shall be entitled to damages nor for any portion of a payment refused for any interruption of service which in the opinion of the District may be deemed necessary.

- M. Customers having boilers and/or pressure vessels receiving a supply of water from the District must have a check valve on the water supply line and a vacuum valve on the steam line to prevent collapse in case the water supply from the District is discontinued or interrupted for any reason, with or without notice. All customers shall have a check valve on the customer's side of the District meter, to prevent back flow into District System.
- N. The premises receiving a supply of water and all service lines, meters and fixtures, including any fixtures within said premises, shall at all reasonable hours be subject to inspection by the District.
- O. Piping on the premises of a customer must be so installed that connections are conveniently located with respect to the District lines and mains. The customer shall provide a place for metering which is unobstructed and accessible at all times.
- P. The customer's service line shall be installed and maintained by the customer at his own expense in a safe and efficient manner and in accordance with the rules and regulations and with the regulations of the Department of Health.
- Q. If any loss or damage to the property of the District or any accident or injury to persons or property is caused by or results from the negligence or wrongful action of the customer, member of his household, his agent or employee, the cost of the necessary repairs or replacements shall be paid by the customer.

PUBLIC SERVICE COMMISSION
 DIVISION
 OF THE
 COMMONWEALTH OF KENTUCKY
 EFFECTIVE
 AT 10:00 AM
 AUGUST 1, 1989
 BY Carl Klingentz
 PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingentz
Name of Officer

Chairman P. O. Box 51, Buckner, KY.
Title Address 40010

FOR - Oldham County Water District

P.S.C. Ky. No. 2

1st Revised Sheet No. 12

Cancelling P.S.C. Ky. No. 1

Original Sheet No. 12

OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

District and any liability otherwise resulting shall be that of the customer.

- R. Water furnished by the District may be used for domestic consumption by the customer, member of his household, and employees only. The customer shall not sell or give away the water to any other person. District does not provide fire protection to any customer, any fire protection facility tank, pump or storage unit shall be installed only with prior written consent of the District.
- S. All customers shall grant or convey, or shall be caused to be granted or conveyed, to the District a perpetual easement and right-of-way across any property owned or controlled by the customer wherever said easement or right-of-way is necessary for the District water facilities and lines so as to be able to furnish service to the customer.
- T. Complaints may be made to the operator of the system whose decision may be appealed to the Board of Commissioners of the District within ten (10) days; otherwise, the operator's decision will be final.
- U. The water bills shall be paid at Buckner, Kentucky, office of the Oldham County Water District.

ARTICLE 30. This Resolution shall take effect and be in force from and after its passage.

I, the undersigned, Secretary of Oldham County Water District, do hereby certify the foregoing to be a true and accurate copy of the By-Laws, Rules and Regulations of said District, as adopted by the Board of Commissioners.

PUBLIC SERVICE COMMISSION

OF KENTUCKY

AUG 0 1989

Witness my hand this 1st day of August, 1989.

PURSUANT TO SECTION 9(1)

CHAIRMAN

PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingenfus
Name of Officer

Chairman Title
P. O. Box 51, Buckner, KY. Address
40010

FOR — Oldham County Water District

P.S.C. Ky. No. 2

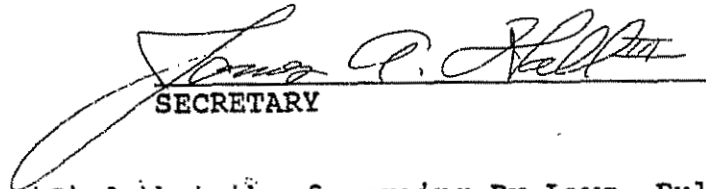
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Cancelling A.R.C. Ky. No. 1

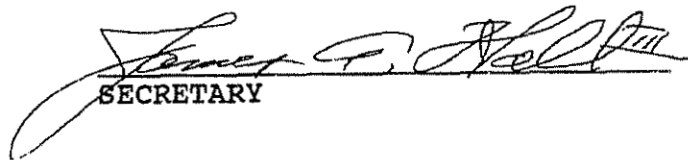
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OLDHAM COUNTY WATER DISTRICT

RULES AND REGULATIONS

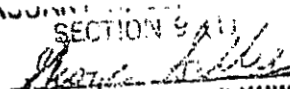

SECRETARY

It is hereby certified that the foregoing By-Laws, Rules and Regulations are a true and correct copy of the official Rules and Regulations of Oldham County Water District adopted by the Commissioners at their regular meeting held on the 1st day of August, 1989.


SECRETARY

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

AUG 01 1989

PURCHASED BY
SECTION 9
BY: 
PUBLIC SERVICE COMMISSION MANAGER

DATE OF ISSUE August 1, 1989
Month Day Year

DATE EFFECTIVE August 1 1989
Month Day Year

ISSUED BY Carl Klingentus
Name of Officer

Chairman Title P. O. Box 51, Buckner, KY. Address 40010

Engineering - Section 9(2) a.

- (a.) The facts relied upon to show that the proposed new construction is or will be required by public convenience or necessity.

Please refer to the report prepared by GRW Engineers titled *Water System Preliminary Engineer Report* dated October 2007. This study was conducted to determine the necessary improvements to the Oldham County Water District's (OCWD) system to accommodate future growth while also providing reliable water supply and pressures to the existing customers. A population and water use projection study were conducted to determine future demands on the OCWD system. The existing facilities including the well field, raw water main, water treatment plant, distribution mains, pump stations and storage facilities were analyzed to determine the capacity of each. This report was the basis for determining the need for a new raw water main, transmission main and the upgraded water treatment plant.

**Water System Preliminary
Engineering Report**

Oldham County Water District

GRW Project No. 3257-09

October 2007

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WATER SYSTEM PRELIMINARY ENGINEERING REPORT

OLDHAM COUNTY WATER DISTRICT

UPDATED OCTOBER 2007

I. Introduction

The Oldham County Water District (OCWD) provides potable water service to the eastern two thirds of Oldham County. The area has experienced rapid growth for the last 15 to 20 years that is primarily the result of residential development. The rapid growth has stressed the existing drinking water infrastructure. Of immediate concern is the ability to provide reliable water supply and adequate pressures to OCWD's existing customers while accommodating additional growth.

OCWD selected GRW Engineers, Inc. to evaluate alternatives for increasing the available capacity to meet the future needs of the OCWD service area.

A planning period through the year 2025 has been selected for this study.

II. Planning Area

The planning area includes the existing OCWD service area as presented in Exhibit II-1.

III. Background Considerations

The OCWD well field includes 8 wells installed between 1981 and 2007. Additional capacity will be needed to accommodate continued growth in water demand.

The OCWD water treatment plant, constructed in 1981, has a capacity of 6.5 million gallons per day (MGD). Current peak demands exceed 6 MGD and could reach 7.5 MGD if a significant drought occurs. Additional treatment capacity is required to meet the growing demand for water.



Explanation

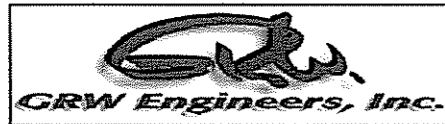
- ★ OCWD Treatment Plant
- ▭ OCWD Service Area
- ▨ LaGrange Utilities Service Area
- ▩ Areas of Oldham County not Serviced by OCWD
- Roads

0 4,500 9,000
 Feet

Oldham County Water District
 Service Area

October 2007

EXHIBIT II-1



Map Document (I:\257-OCWD\Web_RW_WFP\3257-01 Master Plan\Report\Preliminary Eng Report for PSC\tech\l1.mxd) 10/24/2007... 4:24:16 PM

IV. Population and Water Use Projections

A. Population Projection

The population of Oldham County is projected to increase from 50,517 in 2003 to 84,432 in 2025. This is based on projections prepared by the Kentucky State Data Center.

B. Existing and Projected Water Demands

The existing and projected water demands are presented in Table IV-1.

The population of the OCWD service area is projected to increase in proportion to the overall increase expected for Oldham County. The projected increase from 2003 to 2025 is 67 percent.

The commercial, educational, farm, and government usages are projected to increase in proportion to the projected population increase. The commercial projection includes growth of water demand from existing industries.

The Oldham County Economic Development Authority (OCEDA) is developing the 1,194 acre Oldham County Economic Development Campus located just southwest of the I-71 interchange at La Grange. This new development, for which master planning is currently underway, is expected to be comprised of 592 acres commercial, 314 acres residential, 17 acres educational, 25 acres parks, 56 acres roads, and 190 acres greenway. The future water demand for the residential and educational portions of this development are included in the overall projections for residential and educational water use. The future water demand for the commercial portion of this development is 590,000 gallons per day based on a water use of 1,000 gallons per acre per day.

The Kentucky Department of Corrections was contacted and it was determined they have no specific plans to increase the size of the Kentucky State Reformatory. However, they recommended planning for a 20 percent increase in water demand over the planning period. A 20 percent increase in the number of inmates would be about 380 persons.

The OCEDA web site indicates there are 291 acres of available developed industrial sites in the Oldham County Business Park and Westbrook. It also indicates there are three available previously occupied sites totaling 88 acres that have existing buildings. There are also about 200 undeveloped acres located near the intersection of Old La Grange Road and New Cut Road that are zoned industrial, but there is significant uncertainty that this property will actually be developed for industrial use. The industrial water demand increase is projected to be 380,000 gallons per day based on 379 developed acres at 1,000 gallons per acre per day.

The City of La Grange water use is projected to increase in proportion to the overall population increase projected for Oldham County (67 percent).

Oldham County Water District
Water System Preliminary Engineering Report

The Henry County Water District (HCWD) service area served by OCWD water is limited and isolated from the rest of the HCWD system because it is in a different pressure zone. The size of the service area is not expected to increase in the future. Due to the close proximity of this area to Oldham County and La Grange, the water demand is projected to increase at the same rate as the population of Oldham County.

Peak demands in excess of 1.5 times the annual average demand occurred two times in June-July 2004 when rainfall patterns were normal and temperatures were below normal. High peaks are reported to be common for OCWD in the summer, apparently due to the increased use of lawn sprinkling systems in new home construction. A peak demand of 1.8 times average demand will be used for projection of peak demands during dry summers.

**TABLE IV-1
 EXISTING AND PROJECTED AVERAGE WATER DEMANDS
 OLDHAM COUNTY WATER DISTRICT**

	2003 WATER USE, GALLONS PER DAY	2025 PROJECTED WATER USE, GALLONS PER DAY
Retail		
Residential	1,560,000	2,610,000 ¹
Commercial	280,000	470,000 ¹
Educational	28,000	50,000 ¹
Farm	23,000	40,000 ¹
Government	28,000	50,000 ¹
Industrial	0 ²	380,000 ³
Commercial	0	590,000 ⁴
Kentucky State Reformatory	628,000	760,000 ⁵
Wholesale		
La Grange	837,000	1,400,000 ¹
Henry County Water District	20,000	30,000 ¹
Subtotal – Water Sold	3,404,000	6,380,000
Other ⁶	426,000	800,000
Total – Water Pumped	3,830,000	7,180,000
Projected Peak Day Demand @ 1.8 Peak Factor		12,930,000
Projected Peak Day Demand, Rounded		13,000,000

¹Projected to increase at the same rate as the population of Oldham County (67 percent), rounded to the nearest 10,000 gallons per day

²The existing industrial water use is included in the existing commercial water use

³Based on 379 acres at 1,000 gallons per acre per day, rounded

⁴Based on 592 acres at 1,000 gallons per acre per day, rounded

⁵Based on a 20 percent increase in water demand as recommended by the Kentucky Department of Corrections

⁶Flushing, fire protection, main breaks, leaks, etc

V. Existing Facilities

A. Well Field

The well field is the area of land containing OCWD's existing wells. It is located along the southeast shore of the Ohio River near Westport, Kentucky. The wells draw water from the Ohio River alluvium, which is found in a relatively narrow band along portions of both sides of the river.

B. Wells

There are eight existing wells with capacities as listed in Table V-1. Exhibit V-1 presents a map showing the locations of the existing wells.

**TABLE V-1
EXISTING WELLS
OLDHAM COUNTY WATER DISTRICT**

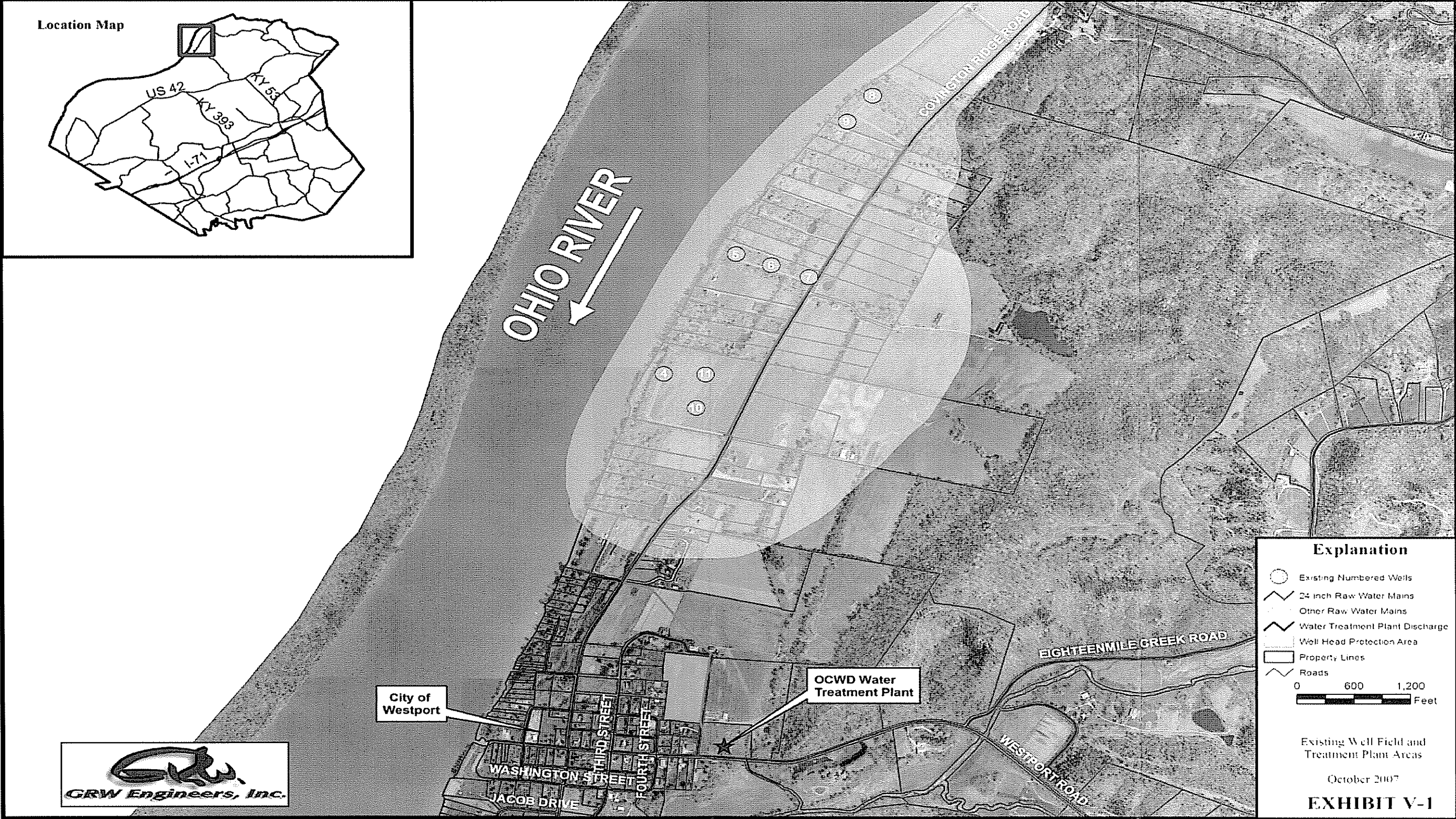
WELL NO.	YEAR INSTALLED	DESIGN CAPACITY¹ GALLONS PER MINUTE	PRESENT CAPACITY GALLONS PER MINUTE
4	1981	1,200	950 ¹
5	1989	1,400	1,230 ¹
6	1989	1,400	1,310 ¹
7	1997	1,400	1,350 ¹
8	2004	1,200	1,200 ²
9	2004	1,200	1,200 ²
10	2007	1,400	1,400
11	2007	1,400	1,400
Total		10,600	9,940

¹From 2003 Well Performance Test Report by Reynolds, Inc.

²From installation reports for Wells No 8 and 9.

The life expectancy of wells varies with water chemistry, aquifer type, well design, and how hard (frequently) the wells are pumped. It appears that a reasonable life expectancy at OCWD is on the order of 30 years. Based on the low capacity shown in Table V-1, and reported poor water quality, Well 4 is approaching the end of its useful life. The existing wells (excluding Well 4) have a firm capacity (with the largest well out of service) of about 2,640 GPM. Two additional wells will be needed to meet the projected peak demand. OCWD desires to construct those wells now in order to limit the operating time for all wells and thus greatly extend their useful life.

The OCWD staff is concerned about the reliability of the electrical power supply to the wells and requested that additional standby power capabilities be considered. OCWD currently has a portable generator capable of operating one well.



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C. Raw Water Main

Raw water is pumped from the wells to the water plant through about 9,500 feet of 24-inch ductile iron main that was installed in 1981. The friction losses in the existing main are such that a parallel main will be needed to meet the growing demand; otherwise the output of the existing wells would decrease as additional wells are connected to the existing main. The raw water main is shown in Exhibit V-1.

D. Water Treatment Plant

1. General

Exhibit V-2 presents a site plan of the existing OCWD water treatment plant. The plant has a capacity of 6.5 million gallons per day (MGD).



Existing Water Plant Building

2. Process Adequacy

A process adequacy matrix is presented in Table V-2. Additional discussion regarding each process follows the matrix.

FILE NAME: I:\3257-OCWD Wells, RW, WTP\3257-01 Master Plan\Report\Preliminar Eng Report for PSC\3257-Exhibit V-2.dwg



SITE PLAN-EXISTING WATER PLANT
 WATER SUPPLY AND
 TREATMENT MASTER PLAN
 OLDHAM COUNTY WATER DISTRICT
 October, 2007
EXHIBIT V-2

Oldham County Water District
Water System Preliminary Engineering Report

**TABLE V-2
 PROCESS ADEQUACY MATRIX
 OLDHAM COUNTY WATER DISTRICT**

PROCESS/ITEM	ADEQUACY	CAPABLE OF SERVING FUTURE NEED
Raw Water Flow Meter	Meter does not work; meter is too small for expanded plant	No
Finished Water Flow Meter	Meter does not work. Separate new meters will be installed on the existing and new pump station discharges.	No
Chlorine Feed System	<p>The system has adequate chlorine storage capability (30 days required per Ten States Standards) and with modifications it could be upgraded to provide higher feed rates for an expanded plant. However, the system has the following deficiencies:</p> <ul style="list-style-type: none"> • The chlorine feed rate is manually controlled and is not automatically varied with raw water flow. • The chlorine leak detector monitors the chlorine storage room, but not the chlorine feed room. • The chlorine leak detector alarm is not tied into the Computer Based Supervisor Control and Data Acquisition (SCADA) system. • The chlorine storage room and feed room ventilation systems are not automatically shut down during a chlorine leak. • The exterior chlorine storage room doors do not seal. • An OSHA Process Safety Management Plan has not been prepared. • An EPA Risk Management Plan has not been prepared. • The chlorine room does not have a scrubber designed to contain a leak from a chlorine cylinder. <p>A chlorine scrubber and alternative disinfectants should be considered to reduce the risk from a chlorine leak.</p>	Yes
Phosphate Feed System	<p>The purpose of feeding the phosphate is to keep dissolved manganese in solution so it does not precipitate and stain plumbing fixtures and laundry. Average raw water manganese is 0.03 mg/L compared to the maximum contaminant level allowed of 0.05 mg/L. Future wells must have low manganese levels if this treatment approach is to continue to be used. If manganese exceeds 0.05 mg/L, it may become necessary to filter the water. The phosphate feed system has adequate feed capacity for a plant expansion. It has the following deficiencies:</p> <ul style="list-style-type: none"> • Access to the feed room is through the chlorine storage room. A separate exterior door should be provided if hazardous gaseous chlorine continues to be stored in the chlorine storage room. 	Yes

Oldham County Water District
Water System Preliminary Engineering Report

TABLE V-2 Continued)
PROCESS ADEQUACY MATRIX
OLDHAM COUNTY WATER DISTRICT

PROCESS/ITEM	ADEQUACY	CAPABLE OF SERVING FUTURE NEED
Fluoride Feed System	<p>The system has the following deficiencies:</p> <ul style="list-style-type: none"> • The fluoride feed system is not in a room separate from other chemical feed systems as required by Ten States Standards. • Access to the feed room is through the chlorine storage room. Ten States Standards prohibits access to other rooms through chlorine storage for feed rooms. • The fluoride feed pump has a standard electrical outlet, which is prohibited by Ten States Standards. • A working finished water flow meter is not provided for proper fluoride dose control as required by Ten States Standards. 	No
Clearwells	<p>The two clearwells (1,000,000 gallons each) have an adequate volume to meet the Kentucky Division of Water sizing criteria (15 percent of plant capacity) for an expansion up to a plant capacity of 13,300,000 gallons per day. The clearwells are unbaffled, resulting in serious short-circuiting and reductions in disinfection efficiency. The Kentucky Division of Water expects to require all ground water system to baffle their clearwells in the near future.</p>	Yes
High Service Pumping	<p>The high service pump station has a capacity of about 6.5 MGD. The pump station is adequate for its intended design capacity, but additional capacity will be needed.</p>	Yes
High Service Transmission Main	<p>The existing 24 inch high service main is adequate for current needs, but supplemental capacity will be needed.</p>	Yes

3. Raw and Finished Water Metering

The existing plant does not have functioning raw water and finished water meters. Water flows are measured with the meters at the individual wells. It is recommended that a new raw water meter be installed to allow chemical feed rates to be varied with raw water flow. It is also recommended that two new finished water flow meters be installed, one on the existing pump station discharge and one on the new pump station discharge.

4. Chemical Feed Systems

Three chemicals are fed at the water treatment plant: chlorine, phosphate, and fluoride. The phosphate product is fed to keep small amounts of dissolved manganese in solution

so precipitated manganese can not discolor water or settle in water tanks. All three chemicals are fed through diffusers installed in a manhole located over the 24-inch raw water main.

Chlorine is purchased in 1-ton cylinders. Scheduling the delivery of a new cylinder just before the in-service cylinder is empty minimizes the amount of chlorine stored on-site. The chlorinators are installed in a separate room from the chlorine cylinders.

A separate 13'-6" x 15'-6" room is provided for phosphate and fluoride feed.

Phosphate is fed from 55-gallon drums to keep dissolved manganese in solution. The plant currently uses about 3 gallons per day. This feed arrangement meets industry standards and should be adequate for the projected future water demand.

Hydrofluosilicic acid is also fed from 55-gallon drums. The plant currently uses about 12 gallons per day and should use about twice that much at the end of the planning period. A bulk tank (and day tank) should be provided to reduce the need for manual handling of this hazardous chemical. A separate storage and feed room should be provided as required by regulatory design standards.

5. Clearwells

After chemical addition, the water flows to two unbaffled 1,000,000-gallon clearwells (each 76'-6" x 125' x 14' deep), which operate in parallel. The inlet pipes connect to the clearwells about 10 feet from the outlet pipes, resulting in short-circuiting.

The Kentucky Division of Water requires the clearwell volume to be at least 15 percent of plant capacity. The volume of the existing clearwells is sufficient for up to 13.3 MGD.

6. High Service Pumping

There are five existing 150 horsepower vertical turbine high service pumps and space for three additional pumps. Each pump has a nominal design capacity of about 1200 GPM, but they deliver 1500 GPM with one pump, 2800 GPM with two pumps, 4300 GPM with three pumps, and 5500 GPM with four pumps. The discharge pressure with two pumps running is 150 PSI.

The operators report that three pumps can be run together without any problem, but they are very concerned about potential power failure related surge pressures when four pumps are operated.

The pumps discharge to a 20-inch header that increases to 24 inches outside the building. The velocity in the discharge header at the projected peak flow of 13 MGD would be nearly 10 feet per second, which exceeds design standards.

Excessive condensation occurs on the pumps and piping in summer when warm humid air is exposed to the pipes containing cool ground water. The operators feel there is a need for dehumidification for the pump room.

The ventilation for the pump room appears to be undersized for the installed pump horsepower and does not create a good cross flow of air over the pump motors.

7. High Service Transmission Main

The high service pumps deliver water through 7,000 feet of 24 inch main to the Greenhaven ground storage tanks and booster pump station.

8. Sanitary Drainage

Sanitary wastewater flows to a septic tank and leachate field. Sanitary sewer service is not available.

9. Electrical and Standby Power

The electrical service to the plant is 480/277 volts, 1600 amps. The main switchboard includes four feeder breakers, which serve the following:

- Automatic transfer switch, which services High Service Pump #1 and an emergency transformer, and panelboard.
- Motor control center, which serves High Service Pumps #2, 3 and 4.
- A variable frequency drive for High Service Pump #5.
- A 45 KVA transformer and low voltage panelboard.

A 200 KW standby power generator and fuel tank are located in the high service pump room and on top of the pump well. The generator is connected only to High Service Pump #1. There is a spill containment curb around the generator and fuel tank.

The 75 KW portable standby generator used for the wells is stored in the pump room, which is the top of the pump well. A separate storage room should be provided for the generators to protect the pump well from a potential oil or diesel spill.

10. Instrumentation, Controls, and Telemetry Systems

The existing SCADA system for the water plant and distribution system is a radio-based, proprietary system supplied and serviced by Microcom, Inc. The system allows for monitoring and control of water treatment plant pumps and clearwells, and remotely monitors well pumps, booster pumps, and tanks. Currently, automatic control of well pumps is provided, with the pumps being controlled based on the clearwell level. High service pumps are controlled automatically based on the level in the Greenhaven tanks. The master includes workstations with human-machine interface (HMI) software.

Currently, both the water treatment plant and district office include computer workstations, which monitor the system.

The instrumentation and telemetry system is adequate for the current system, but it should be expanded as new facilities are added to the system.

11. Regulatory Compliance Status

EPA's new Ground Water Rule requires sanitary surveys and hydrologic sensitivity assessments to determine the potential for fecal contamination of ground water sources. Under the rule, certain high-risk systems may be required to disinfect to achieve a 4-log inactivation of viruses. If that is found to be necessary at OCWD, this would require baffling the existing clearwells.

401 KAR 8:150 requires that all water systems using groundwater chlorinate and provide a contact time of at least 30 minutes. Although short-circuiting occurs in the clearwell, the existing plant complies with this regulation.

The Kentucky Division of Water reports that in the future, it will probably require all ground water systems to disinfect to achieve a 4-log inactivation of viruses. This will require the addition of baffling to the existing clearwells.

EPA proposed a new rule to regulate radon in drinking water in 1999. EPA estimates this rule will become effective in December 2005. The rule will set a maximum contaminant level (MCL) of 300 picoCuries per liter in treated water. The average amount of radon in water from the existing wells is about 234 picoCuries per liter, which is within standards.

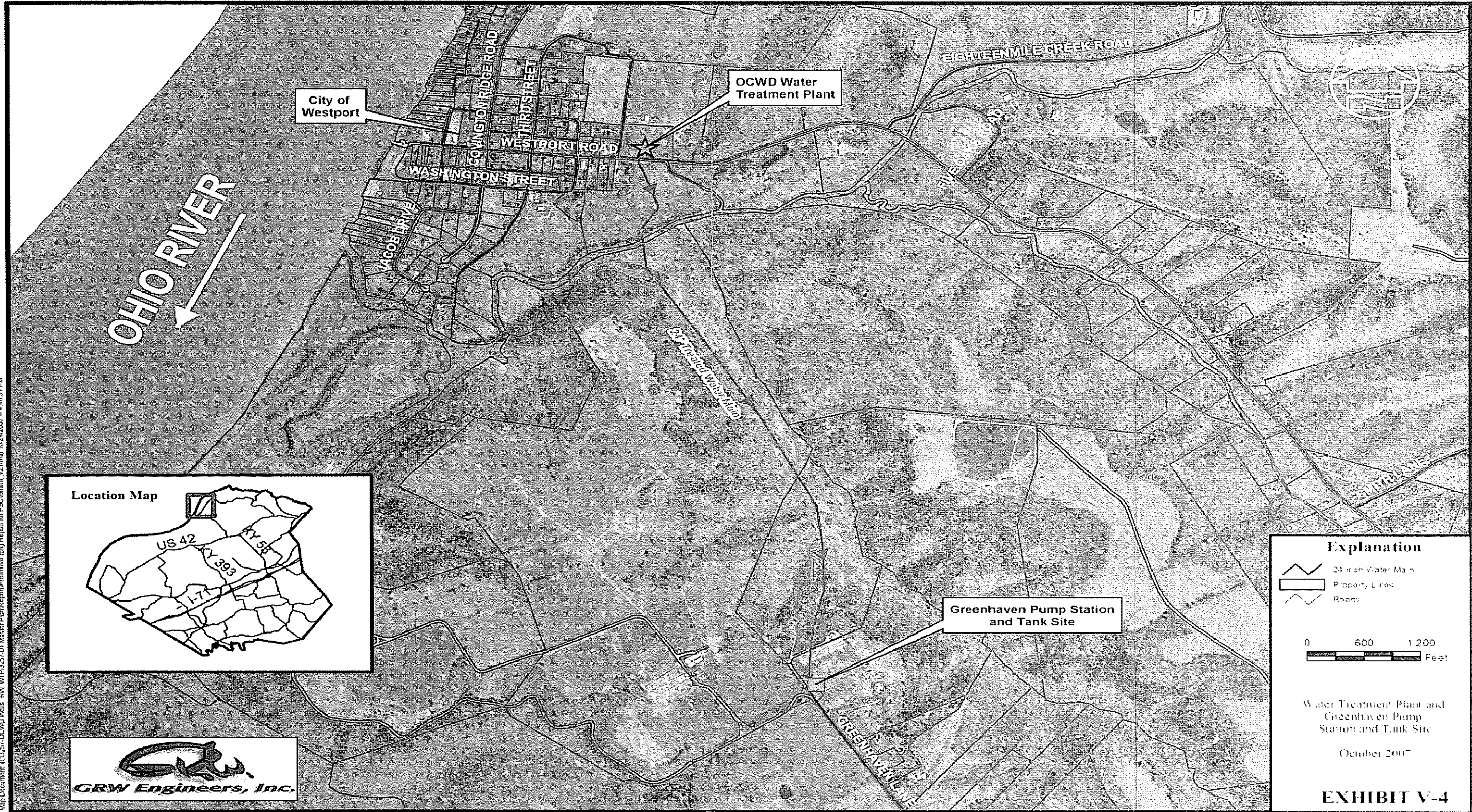
12. Security

Current provisions for security at both the well field and water treatment plant are limited to security fencing and locks consistent with past practices in the drinking water industry. There are new concerns about vandalism and terrorism against water systems. The following additional security measures are recommended:

- Installation of an entry alarm system at the existing and proposed water treatment plant buildings.
- Installation of video surveillance equipment at the water treatment plant, which is often unmanned. The purpose of the equipment would be to monitor site areas around the treatment plant buildings.

E. Greenhaven Pump Station

The high service distribution pump station pumps through a 24-inch main to the Greenhaven pump station, which then delivers water to the distribution system (see Exhibit V-3). Two ground storage tanks with a total volume of 995,000 gallons are



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located at the site and receive water from the high service transmission main. There are four existing 200-horsepower vertical turbine pumps, which deliver 3,500 GPM (5.0 MGD) with two pumps in service and an estimated 4,000 GPM (5.8 MGD) with three pumps in service.

There is a standby emergency generator at this station; however, it is not large enough to run even one pump. The generator and transfer switch should be replaced with larger equipment.

VI. Recommended Improvements

A. Wells

It is recommended that two additional wells be constructed on a site OCWD recently purchased immediately southwest of Well 4.

B. Raw Water Transmission Main

It is recommended that a second 24-inch raw water main be constructed from the vicinity of Wells 4, 10 and 11 to the water treatment plant. The length is approximately 4,800 feet. The location of the main is shown in Exhibit VI-1.

C. Raw Water Flow Monitoring

It is recommended that the existing raw water flow meter at the water treatment plant be replaced.

D. Chemical Feed Systems

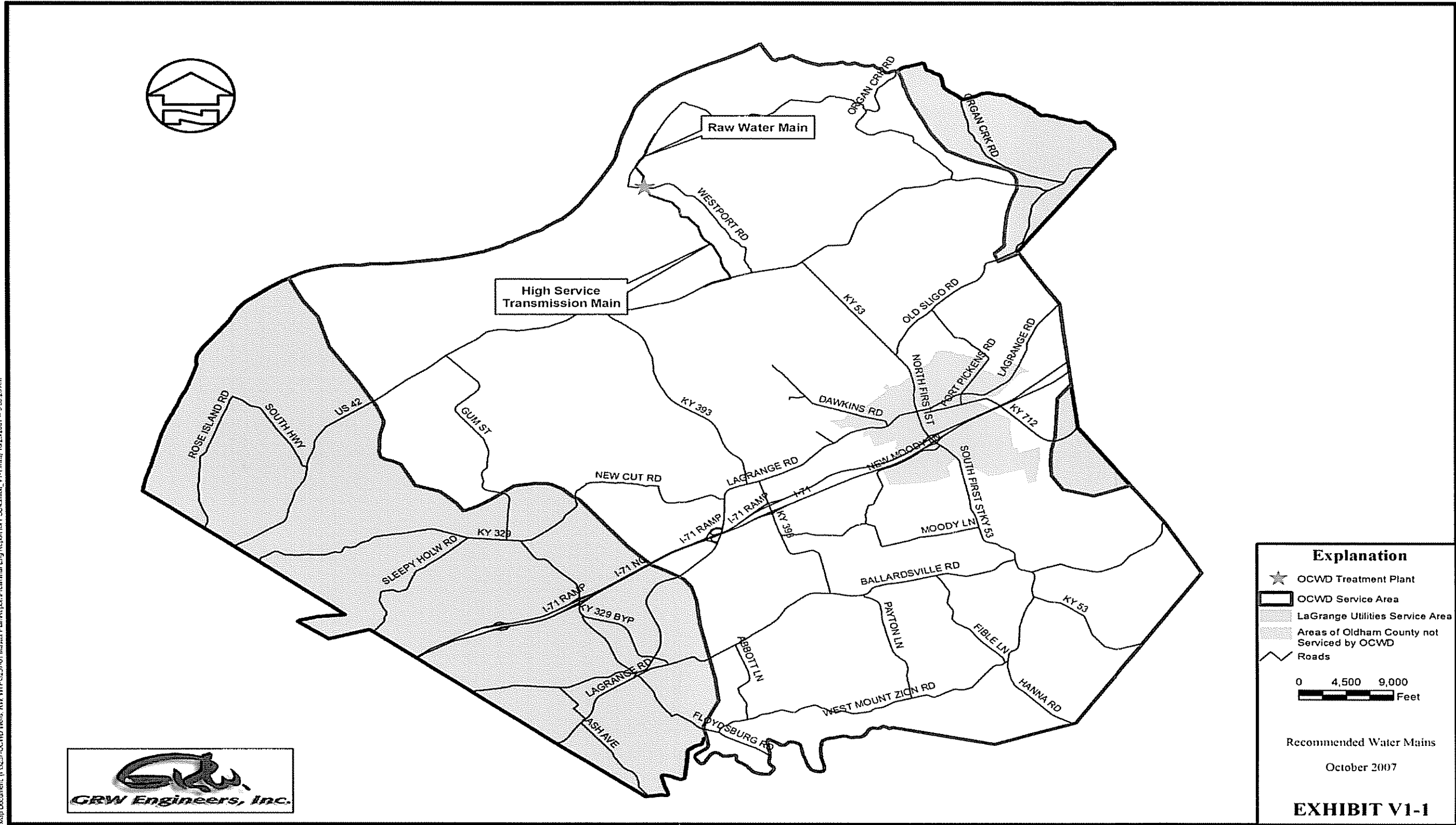
It is recommended that a new chemical feed building be constructed to house all chemicals. This will make the existing chemical feed area available for other uses and allow construction of adequate spill containment facilities.

It is recommended that a new bulk hypochlorite feed system be installed to eliminate the safety hazards associated with gaseous chlorine. A new bulk hydrofluosilicic acid feed system should also be provided in the new building.

The feed rate of all chemicals should be automatically varied with changes in the raw water flow rate.

E. Clearwells

The existing clearwell volume is adequate for the expanded plant. Baffles should be added to the clearwells to eliminate short-circuiting and improve disinfection effectiveness.



Map Document: I:\3257\OCWD\Wells_RW_WTP\3257-01 Master Plan\Report\Prelim\Map_Exp_Report_V1-1.mxd 10/26/2007 - 9:59:20 AM

F. High Service Pumping

It is recommended that a second high service pump station be constructed. Three higher-pressure vertical turbine pumps should be installed for pumping around the Greenhaven pump station.

G. High Service Flow Metering

The existing high service flow meter that serves the existing pump station should be replaced. A second high service flow meter should be provided to meter flow from the new pump station.

H. High Service Transmission Main

It is recommended that a second high service transmission main be constructed to transmit the larger flow of water to the distribution system. This main will consist of about 14,500 feet of 36-inch pipe running cross-country to U.S. 42 and 2,800 feet of 30-inch pipe along U.S. 42. The location of the main is shown in Exhibit VI-1.

I. Instrumentation, Controls, and Telemetry

The existing radio based SCADA system should be expanded to include the additional well sites and the new high service pump station and clearwell.

J. Electrical and Standby Power

Two additional portable generators should be purchased to provide standby power service to the well field.

A separate electrical service should be provided to the new high service pump station for additional redundancy. A second standby power generator should be provided to operate at least two pumps in the new high service pump station. The existing generator should continue to be used to operate High Service Pump #1 in the existing pump station.

K. Garage for Portable Generators

The existing chlorine rooms should be converted to a garage bay to store two portable generators. The third generator can be stored in existing off-site storage space.

L. Storage

The existing fluoride and phosphorus feed room will be used for storage.

M. Greenhaven Pump Station

It is recommended that the existing standby power generator be replaced to enable one pump to be operated on standby power. The transfer switch should also be replaced.

VII. Opinion of Probable Cost for Recommended Project

The opinion of probable cost for the recommended project is presented in Table VII-1. Estimates of the construction costs for all improvements have been based on recent price quotations from manufacturers and suppliers, on the advice of construction contractors, based on industry-standard cost estimating manuals (i.e. - Means), and on previous prices for comparable construction. The estimated construction cost covers materials and equipment in place, and includes construction contractor's estimated profits and overhead.

Due to fluctuating interest rates and other various economic factors, it is extremely difficult to predict future construction costs. Therefore, all costs are Winter 2007 costs and do not include an inflation allowance.

**TABLE VII-1
 OPINION OF PROBABLE COST FOR RECOMMENDED PROJECT
 OLDHAM COUNTY WATER DISTRICT**

ITEM	COST
Construction Costs:	
Construct Two New Wells	\$490,000
Construct Raw Water Transmission Main	\$660,000
Construct Water Treatment Plant Expansion	\$3,800,000
Replace Greenhaven Pump Station Generator and Transfer Switch	\$200,000
Construct Water Transmission Mains	\$4,100,000
Subtotal – Construction Costs	\$9,250,000
Other Project Costs:	
Administrative and Legal Expenses	
Legal and Financing Related Costs	\$120,000
Easement Acquisition	\$175,000
Land for Well Site	\$325,000
Interest During Construction	\$400,000
Engineering Services	
Preliminary Engineering and Hydraulic Model	\$57,500
Design, Bidding, and Construction Administration	\$655,000
Inspection	\$378,000
Other Engineering Services	\$118,000
Subtotal – Other Project Costs	\$2,228,500
Contingency @ 10% of Construction Cost	\$925,000
Total Estimated Project Costs	\$12,403,500

VIII. Conclusions and Recommendations

It has been concluded, based on detailed evaluations and discussions with key staff members of the Oldham County Water District, that the projected water usage over a 20-year period warrants a water supply and treatment capacity of 13.0 MGD. It has been further concluded that the existing water treatment plant is not sufficient, in its current form, to meet current water usage, let alone the projected increase. Therefore, it is recommended that the Oldham County Water District initiate a program to upgrade and expand its facilities as outlined in Section VI of this report.

Engineering - Section 9(2) b.

- (b.) Copies of franchises or permits, if any, from the proper public authority for the proposed new construction or extension, if not previously filed with the commission.

Copies of the permits listed below are shown on the following pages.

- **Raw Water (3257-06)**
 - Kentucky Floodplain Construction Permit – The Kentucky Division of Water (KYDOW) floodplain permit.
 - Kentucky Transportation Cabinet (KTC) encroachment permit.
 - Corps of Engineers (COE) Section 404 permit – The COE reviewed the permit application and determined that a permit will not be required.
 - KYDOW approval for construction.

- **Transmission Main (3236-04)**
 - KTC encroachment permit.
 - KYDOW stream crossing permit.
 - COE Section 404 permit – The COE reviewed the permit application and determined that a permit will not be required.
 - KYDOW approval for construction.

- **Water Treatment Plant (3257-07)**
 - The Oldham County Health Department / Oldham County Building Inspection and Permits.
 - The Kentucky State Plumbing Division / Office of Housing, Building and Construction.
 - KYDOW approval for construction.

- **Wells 12 and 13 (3257-05)**
 - COE Section 404 permit – The COE reviewed the permit application and determined that a permit will not be required.
 - The KYDOW mailed the approved flood plain construction permit directly to OCWD on October 31, 2007.
 - The KYDOW mailed the approved water withdrawal permit directly to OCWD on January 16, 2008.
 - KYDOW approval for construction.

RAW WATER (3257-06)



MARKIE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601

www.water.ky.gov

TERESA J. HILL
SECRETARY

STREAM CONSTRUCTION PERMIT

For Construction In Or Along A Stream

Issued to: **Oldham Co Water District**
Address: **3707 W KY 146**
La Grange, KY 40031

Expires if work is not begun by
March 7, 2008

Permit No. 16330

In accordance with KRS 151.250 and KRS 151.260, the Environmental and Public Protection Cabinet approves the application dated February 8, 2007 for installation of a 24" raw water main along Covington Ridge Road in the left descending floodplain of Ohio River at about stream mile 401.3, with coordinates 38.484804, -85.474753, in Oldham County.

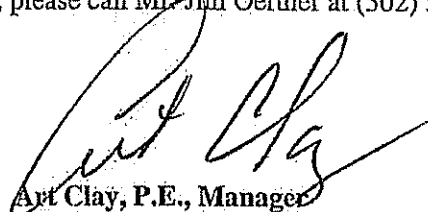
There shall be no deviation from the plans and specifications submitted and hereby approved unless the proposed change shall first have been submitted to and approved in writing by the Cabinet. This approval is subject to the attached limitations.

This permit is nontransferable and is not valid unless actual construction of this authorized work is begun prior to the expiration date noted above. Any violation of the Water Resources Act of 1966 as amended is subject to penalties as set forth in KRS 151.990.

If you have any questions regarding this permit, please call Mr. Jim Oerther at (502) 564-3410.

Issued March 7, 2007.

By:


Art Clay, P.E., Manager
Water Resources Branch

AC/JO/lda

pc: Louisville Regional Office
M. Louise Allen - Oldham County
File

Stream Construction Permit

Oldham Co Water District
Facility Requirements
Permit Number: 16330
Activity ID No.: APE20070005

RC24 (subfluvial crossing) installation of a 24" raw water main along Covington Ridge Road:

Submittal/Action Requirements:

Condition

No. Condition

- 1 Oldham County Water District must submit final construction report: Due within 90 days after completion of construction Oldham County Water District must notify in writing that the project has been completed in accordance with the approved plans and specifications. A Final Construction Report Form is enclosed. [401 KAR 4:060 Section 3(2)]

Narrative Requirements:

Condition

No. Condition

- 1 This permit is issued from the standpoint of stream obstruction only and does not constitute certification of any other aspect of the proposed construction. The applicant is liable for any damage resulting from the construction, operation, or maintenance of this project. This permit has been issued under the provisions of KRS Chapter 151.250 and regulations promulgated pursuant thereto. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits or licenses required by this Cabinet and other state, federal and local agencies. [KRS 151.250]
- 2 A copy of this permit must be available at the construction site. [KRS 151.250]
- 3 Any work performed by or for Oldham County Water District that does not fully conform to the submitted application or drawings and the limitations set forth in this permit, is subject to partial or total removal and enforcement actions pursuant to KRS 151.280 as directed by the Kentucky Department for Environmental Protection. [KRS 151.280]
- 4 Any design changes or amendments to the approved plans must be submitted to the Division of Water and approved in writing prior to implementation. [KRS 151.250]
- 5 Since Oldham County participates in the National Flood Insurance Program, a local floodplain permit must be obtained prior to beginning of construction. Upon completion of construction Oldham County Water District must contact the local permitting agency for final approval of the construction for compliance with the requirements of the local floodplain ordinance. [401 KAR 4:060 Section 1(16)]
- 6 Oldham County Water District must use standard silt control practices in such quantity to prevent siltation of the Ohio River. Silt fences, rock check dams and/or straw-bales are acceptable. [KRS 224.70-110]

Stream Construction Permit

Oldham Co Water District

Facility Requirements

Permit Number: 16330

Activity ID No.: APE20070005

RC24 (continued):

Narrative Requirements:

Condition

No. Condition

- 7 To avoid secondary adverse impacts, all materials used shall be stable and inert, free from pollutants and floatable objects, and shall meet all appropriate engineering standards. (Inert here means materials that are not chemically reactive and that will not rot or decompose, such as soil, rock, broken concrete or similar materials.). [401 KAR 4:060 Section 7]
- 8 All debris and excess material shall be removed for disposal outside of the base floodplain. [401 KAR 4:060]
- 9 Upon completion of construction all disturbed areas shall be seeded and mulched or otherwise stabilized to prevent erosion. [401 KAR 4:060]
- 10 Construction other than as authorized by this permit shall require written approval from the Division of Water. [401 KAR 4:060]



STEVEN L. BESHEAR
GOVERNOR

ROBERT D. VANCE
SECRETARY

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF WATER

14 REILLY ROAD

FRANKFORT, KENTUCKY 40601

www.kentucky.gov

June 12, 2008

Oldham Co Water District
3707 W KY 146
Buckner, KY 40010

RE: Stream Construction Permit #16330 - Extension installation of a 24" raw water main along Covington Ridge Road in the left descending floodplain of Ohio River at about stream mile 401.3, with coordinates 38.484804, -85.474753, in Oldham County.

Dear Oldham Co Water District:

We have received your request for an extension of Stream Construction Permit #16330 - Extension. Since there are no changes in the original plans or circumstances involved, we are extending the expiration date to June 12, 2009. Please note that all restrictions and requirements on the previous permit are still applicable.

If you have any questions, please call Ms. Kathy Allen at (502) 564-3410.

Sincerely,

Ron Dutta, P.E., Manager
Water Resources Branch
Division of Water

RD/KA/kl

pc: Louisville Regional Office
M. Louise Allen - Oldham County
File

KENTUCKY TRANSPORTATION CABINET
Department of Highways
Permits Branch

TC 99-1E
Rev. 10/01

FILE

Issued Date _____

ENCROACHMENT PERMIT

PERMIT NO. 05-0753-07

<p>APPLICANT IDENTIFICATION: NAME: <u>Oldham County Water District</u> CONTACT PERSON: <u>Phillip Ward, OCWD Superintendent</u> ADDRESS: <u>3707 W. Hwy 146</u> CITY: <u>LaGrange</u> STATE: <u>Kentucky</u> ZIP CODE: <u>40031</u> PHONE: area code (<u>502</u>) <u>222-1690</u></p>	<p>PROJECT IDENTIFICATION: ACCESS CONTROL: <input checked="" type="checkbox"/> By Permit <input type="checkbox"/> Partial <input type="checkbox"/> Full COUNTY: <u>Oldham</u> PRIORITY ROUTE NO: <u>KY 524</u> MILEPOINT: <u>4.1</u> <input type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> X-Ing PROJECT STATUS: <input checked="" type="checkbox"/> Maint. <input type="checkbox"/> Const. <input type="checkbox"/> Design PROJECT # STATE: <u>RS0930524004.1</u> PROJECT # FEDERAL: _____ ROAD/STREET NAME: <u>KY 524</u></p>
<p>TYPE OF ENCROACHMENT: <input type="checkbox"/> COMMERCIAL ENTRANCE - BUSINESS <input type="checkbox"/> PRIVATE ENTRANCE: <input type="checkbox"/> Single Family <input type="checkbox"/> Farm <input checked="" type="checkbox"/> UTILITY: <input type="checkbox"/> Overhead <input checked="" type="checkbox"/> Underground <input type="checkbox"/> GRADE: <input type="checkbox"/> Fill <input type="checkbox"/> Landscape on R/W <input type="checkbox"/> AIRSPACE: <input type="checkbox"/> Agreement <input type="checkbox"/> Lease <input type="checkbox"/> OTHER: (Specify) _____</p>	<p>ATTACHMENTS: <input type="checkbox"/> Standard Drawings (List on TC 99-21 under Misc.) <input checked="" type="checkbox"/> Applicant's Plans <input type="checkbox"/> Highway Plan and Profile Sheets <input type="checkbox"/> TC 99-3 (Ponding Encroachment Specs. and Conditions) <input type="checkbox"/> TC 99-4 (Rest Area Usage Specs. and Conditions) <input type="checkbox"/> TC 99-5 (Tree Cutting/Trimming Specs. and Conditions) <input type="checkbox"/> TC 99-6 (Chemical Use of Specs. and Conditions) <input checked="" type="checkbox"/> TC 99-10 (Typical Highway Boring Crossing Detail) <input type="checkbox"/> TC 99-12 (Overhead Utility Encroachment Diagram) <input type="checkbox"/> TC 99-13 (Surface Restoration Methods) <input checked="" type="checkbox"/> TC 99-21 (Encroachment Permit General Notes and Specs.) <input type="checkbox"/> TC 99-22 (Agreement for Services to be Performed) <input type="checkbox"/> TC 99-23 (Mass Transit Shelter Specs. and Conditions) <input type="checkbox"/> Other Attachments (Specify): _____</p>
<p>TYPE OF INDEMNITY: <input checked="" type="checkbox"/> Bond <input type="checkbox"/> Cash <u>\$ 2,000</u> <input checked="" type="checkbox"/> SELF-INSURED AMOUNT ENCUMBERED \$ <u>2,000</u> OTHER _____ NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE: _____</p>	<p>RECEIVED AUG 09 2007 D/5 PERMIT</p>
<p>INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of \$ <u>2,000</u> as determined by the Department. It shall be the responsibility of the applicant or permittee, his heirs and assigns to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.</p>	
<p>BRIEF DESCRIPTION OF WORK TO BE DONE. Starting at mile point 4.1 on KY 524 construction of approximately 63 linear feet of 24-inch ductile iron water main will be bored and jacked in a 36-inch steel encasement pipe beneath KY 524 as shown on the attached plan. Alignment of water main will also be within R/W of highway on west side of KY 524 for approximately 2200 LF.</p>	
<p>IMPORTANT (PLEASE READ): Applicant <input type="checkbox"/> does <input checked="" type="checkbox"/> does not intend to apply for excess R/W.</p>	

When the work is completed in accordance with the terms of this encroachment permit, your indemnity will be released. However, the permit is effective until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect as long as the encroachment exists. **FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITEE.** It is important that you understand the requirements of this encroachment permit application and accompanying documents. If you do not do so, it is suggested that you review these documents and place the permit package in a safe place for future reference.

Copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment permit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

IN THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE RIGHT-OF-WAY, BUT ONLY IN THE MANNER AUTHORIZED BY THIS DOCUMENT AND REGULATIONS OF THE DEPARTMENT AND THE DRAWINGS, PLANS, ATTACHMENTS, AND OTHER PERTINENT DATA ATTACHED HERETO AND MADE A PART HEREOF.

Permit No. _____

The permittee agrees to the following terms and conditions:

1. The permittee shall comply with and is bound by the requirements of the Department's Permits Manual as revised to and in effect on the date of the issuance of this permit which is made a part hereof by reference.
2. Permittee agrees that if the Department determines that vehicular capacity deficiencies or over capacity conditions develop as a result of the installation and use of this facility, the permittee shall adjust, relocate, or reconstruct the facilities and/or provide and bear the expenses for signs, auxiliary lanes, or other corrective measures reasonably deemed necessary by the Department and as set forth in the Department's Permit Manual within a reasonable length of time after receipt of written notice regarding such adjustments, relocation, additions, modifications, and/or corrective measures, such time to be specified in the notice. In cases where traffic signals are permitted or required, as determined by the Department, the costs for signal equipment and installation(s) shall be borne by the permittee and/or the Department in accordance with Department policy then in force as set forth in the Traffic Manual. Any modifications to the permittee's entrance necessary to accommodate signalization (including necessary easement(s) on private property) shall be the responsibility of the permittee, at no expense to the Department. (This applies only to Entrance Permits.)
3. The said encroachment will not infringe on the frontage rights of an abutting owner without written consent of the said owner as hereto: "(we) consent to the granting of attached permit." _____
Date _____ (This does not apply to utilities which serve the general public.)
4. Any permit granted hereunder shall be with the full understanding that it shall not interfere with any similar rights or permits heretofore granted to any other party except as otherwise provided by law.
5. A plan prepared by _____ and dated _____ is attached hereto and made a part hereof, which describes the facilities to be constructed by the permittee for which facilities this permit is granted. The permittee agrees as a condition to the issuance of the permit to construct and maintain such facilities in accordance with said plan, and the permittee shall not use the facilities authorized herein in any manner contrary to that prescribed by this permit and plan. Normal usage and routine maintenance only are authorized under this permit.
6. Permittee shall comply with the Manual on Uniform Traffic Control Devices as revised to and in effect on the date of the issuance of this permit which is made a part hereof by reference.
7. Permittee shall at all times from date when work is first commenced and until such time as all facilities are removed from the right-of-way premises, defend, protect, and save harmless the Department from all liability, claims, and demands arising out of work undertaken by the permittee pursuant to this permit, due to any negligent act or omission by the permittee, its servants, agents, employees, or contractors. This provision shall not inure to the benefit of any third party or operate to enlarge any liability of the Department beyond that existing at common law if this right of indemnity did not exist.
8. Upon a violation of any of the provisions of this permit, the Department may revoke the permit by giving notice to the permittee in writing to remove from the right-of-way any facilities placed thereon within a reasonable time as set forth in the notice, and in the event said facilities are not so removed, and the right-of-way restored the Department may cause same to be removed, and the costs thereof shall be charged to the permittee.
9. The permittee, his successors and assigns shall use the encroachment premises in compliance with all Federal requirements imposed pursuant to the provisions of the Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000-1) and regulations of the U.S. Department of Transportation as set forth in Title 49 C.F.R., Part 21, and as said regulations may be amended.
10. Permittee agrees that in the event it should become necessary, as may be reasonably determined by the Department, for the facilities covered by this permit to be removed or relocated in connection with the reconstruction, relocation, or improvement of the abutting highway, the Department may revoke this permit and require removal or relocation by the permittee at his own expense according and pursuant to the procedures provided in Paragraph 8 above except in those cases where the Department is required by law to pay any or all the same.
11. The permittee understands and agrees that this permit is personal to the permittee and shall not inure to his successors and assigns without the written approval of the Department that he is bound by the provisions of this permit as long as the encroachment exists unless a written release has been obtained from the Department. (Does not apply to utilities serving the general public.)
12. If the work authorized by this permit is on a project in the construction phase, it shall be the responsibility of the permittee to make personal contact with _____ Resident Engineer on the project to coordinate the permitted work with the State's prime contractor on the project.
13. This permit does not alleviate any requirements of any other government agency.
14. Permittee agrees to keep the priority route in which this permit was issued clear of dirt, mud, and debris during construction and for the life of this permit.

ANY ATTEMPT TO ALTER THIS FORM CONSTITUTES A VOID PERMIT.

ANY ATTEMPT TO ALTER THIS FORM CONSTITUTES A VOID PERMIT.

THE UNDERSIGNED APPLICANT (being duly authorized representative/owner) DOES AGREE TO ALL TERMS AND CONDITIONS SET FORTH HEREIN.

January 1st, 20 _____ July 1st, 2008 Aug. 30th 07 _____
Completion Date Date Signature

RECOMMENDED FOR APPROVAL
TET III _____ George Jolly T.T. _____ 8-30-07
Title Signature Chief District Engineer Date

PRIVATE ENTRANCE: TO BE COMPLETED BY PERSONNEL INSTALLING FACILITY.

Installed By: _____
Title Signature Date

ANY ATTEMPT TO ALTER THIS FORM CONSTITUTES A VOID PERMIT.

NOTICE TO PERMITTEE

THE PERMITTEE AGREES THAT ALL WORK WITHIN THE EXISTING RIGHT OF WAY SHALL BE DONE IN ACCORDANCE WITH THE PLANS AS APPROVED AND PERMITTED BY AN ENCROACHMENT PERMIT. ANY CHANGES OR VARIANCES MADE AT THE TIME OF CONSTRUCTION WITHOUT WRITTEN APPROVAL FROM THE DEPARTMENT OF HIGHWAYS SHALL BE REMOVED BY THE PERMITTEE AT NO EXPENSE TO THE DEPARTMENT OF HIGHWAYS AND SHALL BE REDONE TO CONFORM WITH THE APPROVED PLANS.

ENCROACHMENT PERMIT GENERAL NOTES & SPECIFICATIONS

SAFETY

A. General Requirements

- All signs and control of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices for Streets and Highways, latest edition, Part V1, and safety requirements shall comply with the Permits Manual.
- All work necessary in shoulder or ditch line areas of a state highway is to be scheduled to be promptly completed so that hazards adjacent to the traveled-way are kept to an absolute minimum.
- No more than one (1) traveled-lane is to be blocked or obstructed during normal working hours. All signs and flagmen during lane closure shall conform to the Manual on Uniform Traffic Control Devices.
- When it is necessary to block one (1) traveled-lane of a state highway, the normal working hours shall be as directed by the Department. No lanes are to be blocked or obstructed during adverse weather conditions (i.e., rain, snow, fog, etc.) without specific permission from the Department. Working hours shall be between 9:00 AM and 3:00 PM.
- The traveled-way and shoulders shall be kept clear of mud and other construction debris at all times during construction of the permitted facility.
- No non construction equipment or vehicles or office trailers will be allowed on the right-of-way during working hours.
- The right-of-way shall be left free and clear of equipment, material, and vehicles during non-working hours.

B. Explosives

- No explosive devices or explosive material shall be used within state right-of-way without proper license and approval of Kentucky Department of Mines and Minerals, Explosive Division.

C. Other Safety Requirements

- No pavement cuts - traveled lanes shall not be blocked or obstructed at any time. Permit does not relieve the applicant of the obligations of item 6, TC 99-1 page 2 or item A TC 99-21, page 1 of 4.

UTILITIES

- All work necessary within the right-of-way shall be behind a temporary fence erected prior to a boring operation.
- The temporary woven wire fence shall be removed immediately upon completion of work on the right-of-way and control of access immediately restored to original condition, in accordance with applicable Kentucky Department of Highways Standard Drawings.
- All vents, valves, manholes, etc. are to be located outside the right-of-way.
- Encasement pipe shall extend from right-of-way line to right-of-way line and shall be one continuous run of pipe. The encasement pipe shall be welded at all joints.
- The boring pit and tail ditch shall extend past the existing toe of slope or bottom of ditch line and shall be a minimum of 30" deep.
- Encasement pipe shall conform to current standards for highway crossings in accordance with the Permits Manual.
- Parallel lines shall be constructed between back slope of ditch line and right-of-way line and shall have a minimum of 42" cover above top of pipe or conduit. (42" preferred)
- All pavement cuts shall be restored per Kentucky Transportation Cabinet Form No. TC 99-13.
- Aerial crossing of this utility line shall have a minimum clearance of _____ feet from the high point of the roadway to the low point of the line (calculated at the coefficient for expansion of 120 degrees Fahrenheit).
- The 30' clear zone requirement will be met to the extent possible in accordance with Chapter 99-02.0313 of the Permits Manual.
- Special Requirements:

III. GENERAL

TC 90-21
Rev. 7/85
Page 2 of 4

ISHA

- Kentucky Occupational Safety and Health Standards for the construction industry which has the effect of law states in part: (Page 52 8.651 Specific Excavation Requirements) "Prior to opening an excavation, effort shall be made to determine whether underground installations: i.e., sewer, telephones, water, fuel, electric lines, etc., will be encountered, and if so, where such underground installations are located. When the excavation approaches the estimated location of such an installation, the exact location shall be determined and when it is uncovered, proper supports shall be provided for the existing installation. Utility companies shall be contacted and advised of proposed work prior to the start of actual excavation."

B. Archaeological

- Whenever materials of an archaeological nature are discovered during the course of construction work or maintenance operations, contact shall be made immediately with the Division of Environmental Analysis which maintains an archaeologist on its staff, or with the Office of the State Archaeologist located at the University of Kentucky. Following this consultation, further action shall be decided on a case-by-case basis by the State Highway Engineer or the Transportation Planning Engineer or their designated representative.

2. Utilities in the Work Areas

- The permittee is to be responsible for any damage to existing utilities and any utility modifications or relocations within State right-of-way necessary, as determined by the Department or by the owner of the utility, are to be at the expense of the permittee and subject to the approval of the Department.
- All existing manholes and valve boxes are to be adjusted to be flush with finished grade.

IV. RIGHT-OF-WAY RESTORATION

- All disturbed portions of the right-of-way are to be restored to grass as per Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition). A satisfactory turf, as determined by the Department, is to be established by the permittee prior to release of indemnity. Sodding or seeding as follows:

Lawn or High Maintenance Situation	-70% Lawn Fescue (e.g., variety - Falcon) -30% Bluegrass or 70% Lawn Rye (e.g., variety - Derby) 30% Bluegrass
Right-off-Way Lawn Maintenance Situation	-70% KY 31 Fescue -30% Perennial Rye Grass or, 100% KY Fescue

- Two tons clean straw mulch per acre of seeding.
- Prior to seeding, the ground must be prepared in accordance with Kentucky Department of Highways Standard Specifications for Road and Bridge Construction (latest edition).
- Substitutes for sod such as artificial turf or rock mulch or paved areas may be acceptable if they are aesthetically pleasing.
- All ditch flow lines and all ditch side slopes are to be sodded.
- Existing concrete right-of-way markers are not to be disturbed, but if damaged in any way, they are to be entirely replaced by the permittee with new concrete markers to match the original markers, in accordance with Kentucky Department of Highways Standard Drawings. Markers which are entirely removed are to be re-established in the proper locations by the permittee and to the satisfaction of the Department.
- Other right-of-way restoration requirements are as follows:
Ditchline shall be maintained throughout project. Upon completion of project, all culverts and crossdrains shall be cleaned, and ditch shall be graded to drain properly.

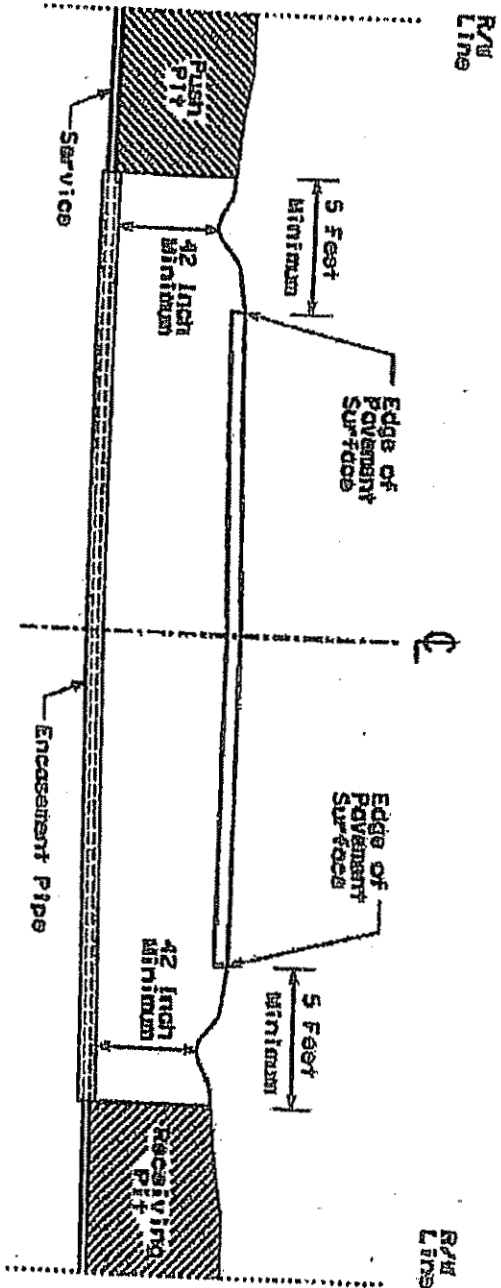
V. DRAINAGE

- All pipe is to be laid in a straight alignment to proper grades, and with all materials and methods of installation including bedding and joint seating in accordance with Department Standard Specifications for Road and Bridge Construction, latest edition. Pipe is not to be covered until inspected by the Department and express permission obtained to make backfill.
- All gutter lines at the base of new curbs are to be on continuous grades, and pockets of water along curbs, or in entrance areas or other wet areas within the right-of-way, are not acceptable.
- Drainage structures and appurtenances (manholes, catch basins, curbing, inlet basins, etc.) shall conform to Department specifications and shall be constructed in accordance with the Department Standard Drawings. Type required:

Kentucky Transportation Cabinet
 Department of Highways
 Permits Branch

EXHIBIT 8
 TC 99-10
 Rev. 9/2004

TYPICAL HIGHWAY BORING CROSSING DETAIL



Permit No. _____
 Route No. KY524
 Pavement Width 20'

1. Push Pit and Receiving Pit shall be backfilled and thoroughly compacted.
2. All ditch lines are to remain open at all times.
3. Seed and straw all disturbed areas immediately after completing the work.
4. Provide traffic control as required to insure the safety of the traveling public in accordance with the current edition of the Manual on Uniform Traffic Control Devices.

ALL SERVICES OVER 2" IN DIAMETER SHALL REQUIRE ENCASEMENT.

30-AUG-2007

Kentucky Transportation Cabinet
Permit Inspection Status Report

ENC6110
Page 1

Permit: 05-0573-07
Applicant: OLDHAM COUNTY WATER DISTRICT
Project: 93-KY-524-4.1

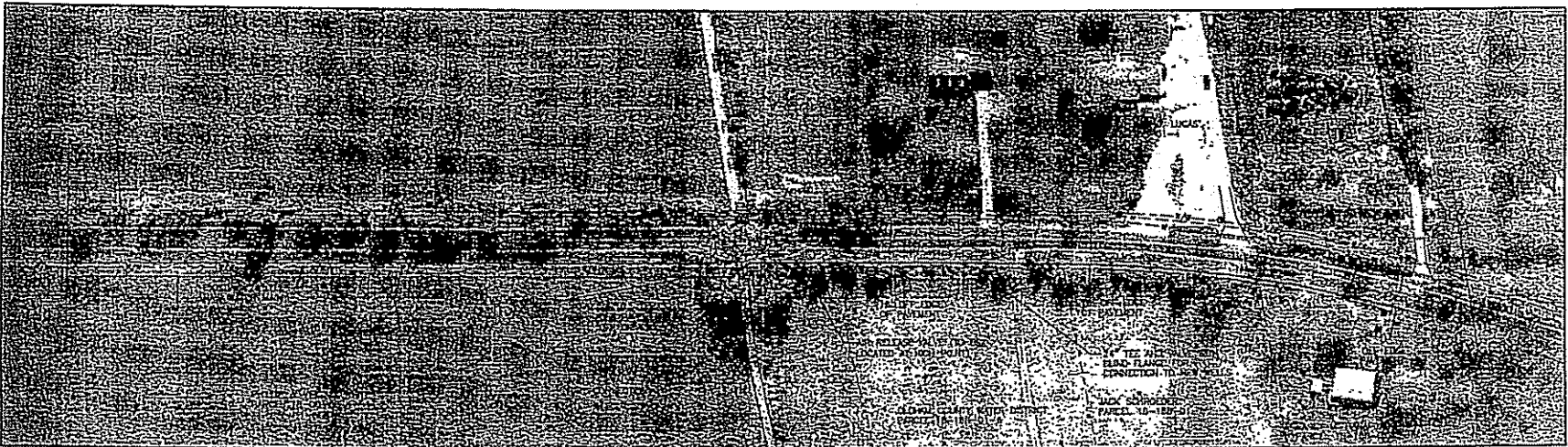
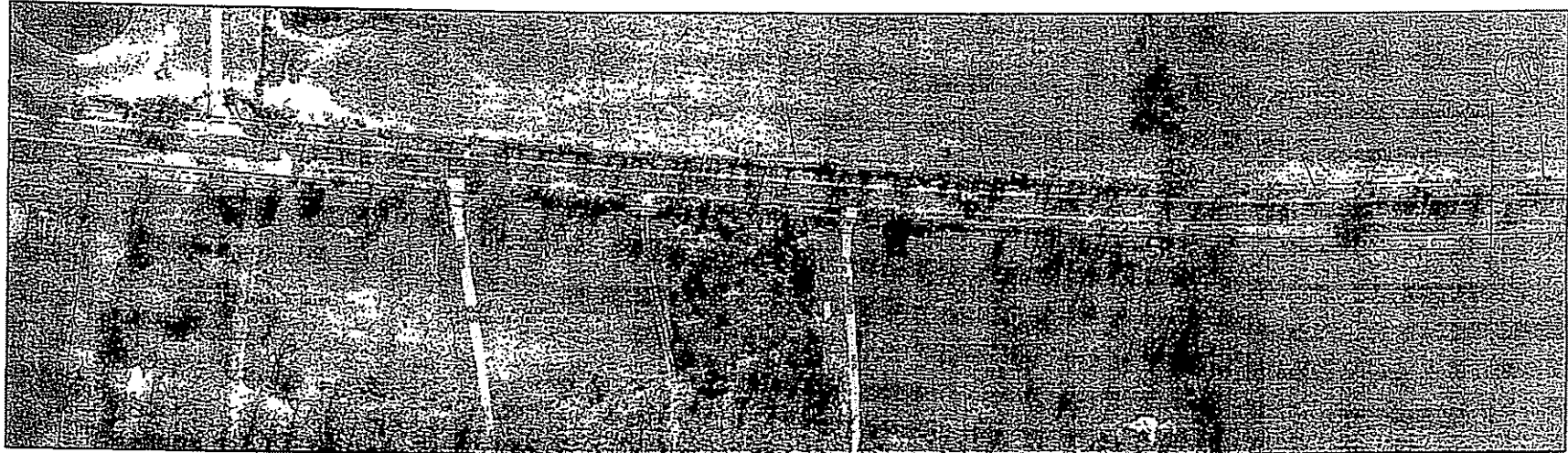
Inspection Date	Comments

Final action (circle one):



DENIED VOID CLOSED CANCELLED ACCEPTED

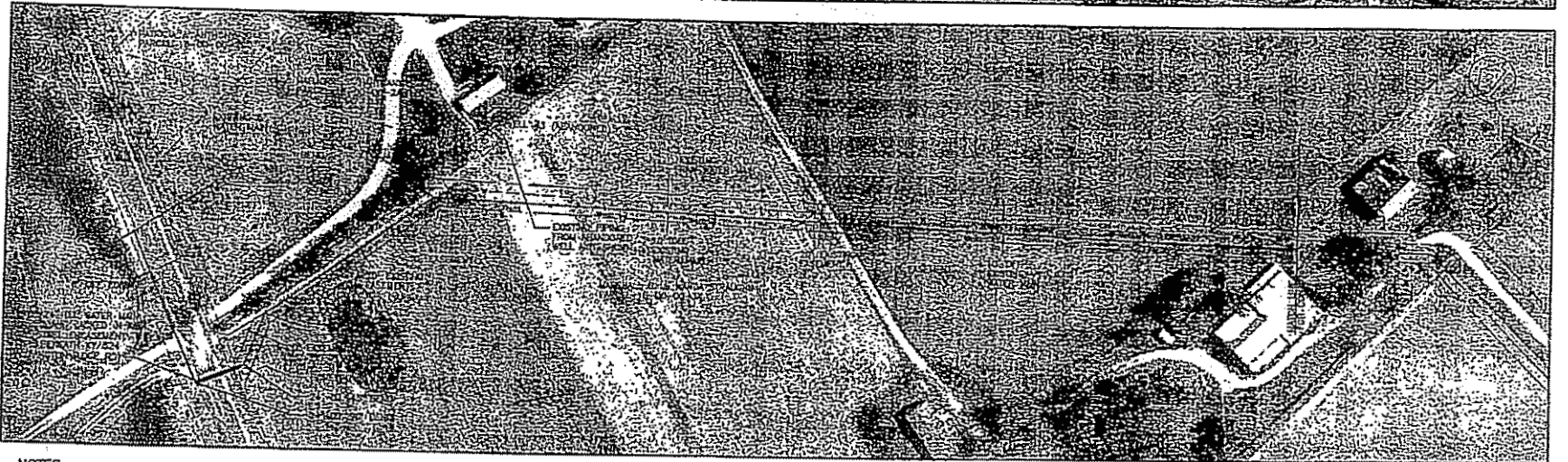
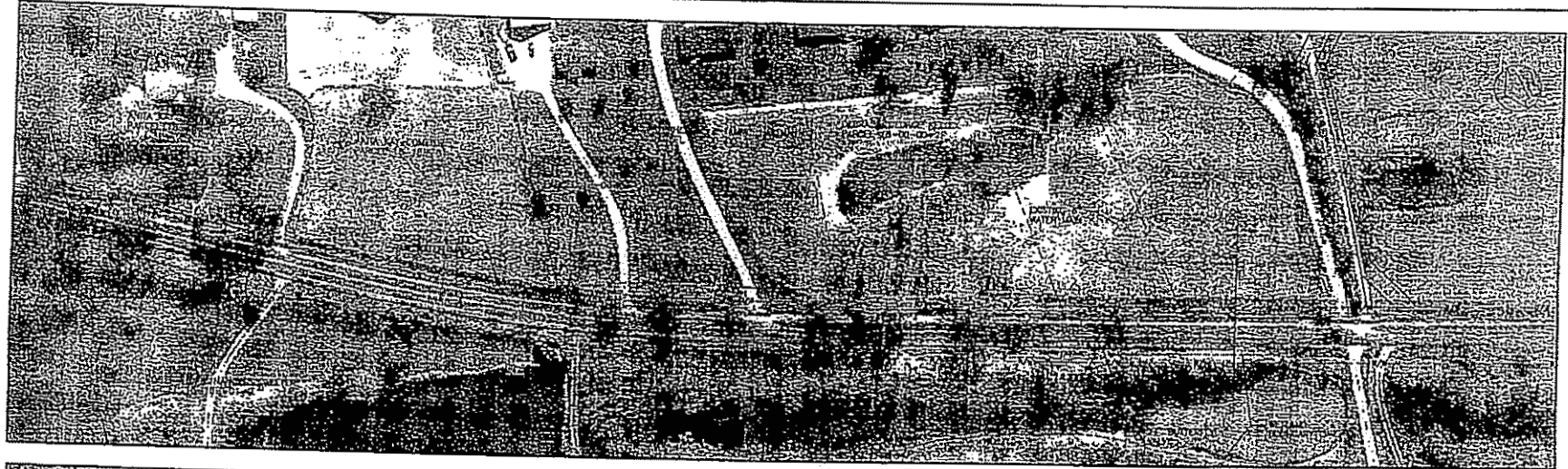
Signature

Date



DATE: 08/14/11 08:00 AM; FILE: 08110811; PROJECT: 08110811; DRAWING: 08110811-05; SHEET: 5 OF 5; SCALE: 1"=40'; DATE PLOTTED: 08/14/11 08:00 AM; PLOTTER: HP/7700 60 INCH



STA. 10+00 TO STA. 40+00 RAW WATER MAIN OLDHAM COUNTY WATER DISTRICT BUCKNER, KENTUCKY		GRW PROJECT NO. 3257-06	
THESE PLANS REPRESENT THE WORK AND SHALL BE THE PROPERTY OF GRW ENGINEERS, INC. AND SHALL BE RETURNED TO THEM UPON COMPLETION OF THE PROJECT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RIGHTS OF WAY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RIGHTS OF WAY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND RIGHTS OF WAY.			
 GRW Engineers, Inc. Engineers, Architects, Planners	DATE: _____ SCALE: _____ DRAWN BY: _____ CHECKED BY: _____ APPROVED BY: _____ REVISED BY: _____		DATE: 08-14-2007 SCALE: 1"=40' DRAWN BY: JBN CHECKED BY: JBN APPROVED BY: JBN REVISED BY: JBN
	REVISIONS		5



NOTES

1. INSTALL NEW RAW WATER MAIN 10 FEET (E TO C) FROM EXISTING 24 INCH RAW WATER MAIN FROM STA. 34+00 TO STA. 35+50. OTHER WILL LOCATE THE EXISTING 24 INCH MAIN.

ALL DIMENSIONS SHALL BE APPROXIMATE & AS SHOWN & ANY DISCREPANCY SHALL BE AS SHOWN
 PROJECT # 07/0707-01-01-01

STA. 18+50 TO STA. 45+50 RAW WATER MAIN OLDHAM COUNTY WATER DISTRICT BUCKNER, KENTUCKY		GRW PROJECT NO. 3257-05											
 GRW Engineers, Inc. Engineers, Architects, Planners <small>MEMBER AMERICAN SOCIETY OF CIVIL ENGINEERS AND ARCHITECTS ASSOCIATION</small>		<table border="1"> <tr> <td>DATE</td> <td>07/07/07</td> </tr> <tr> <td>SCALE</td> <td>1" = 50'</td> </tr> <tr> <td>BY</td> <td>SLV</td> </tr> <tr> <td>CHECKED</td> <td>SLV</td> </tr> <tr> <td>DATE</td> <td>07/07/07</td> </tr> </table>		DATE	07/07/07	SCALE	1" = 50'	BY	SLV	CHECKED	SLV	DATE	07/07/07
DATE	07/07/07												
SCALE	1" = 50'												
BY	SLV												
CHECKED	SLV												
DATE	07/07/07												
		6											

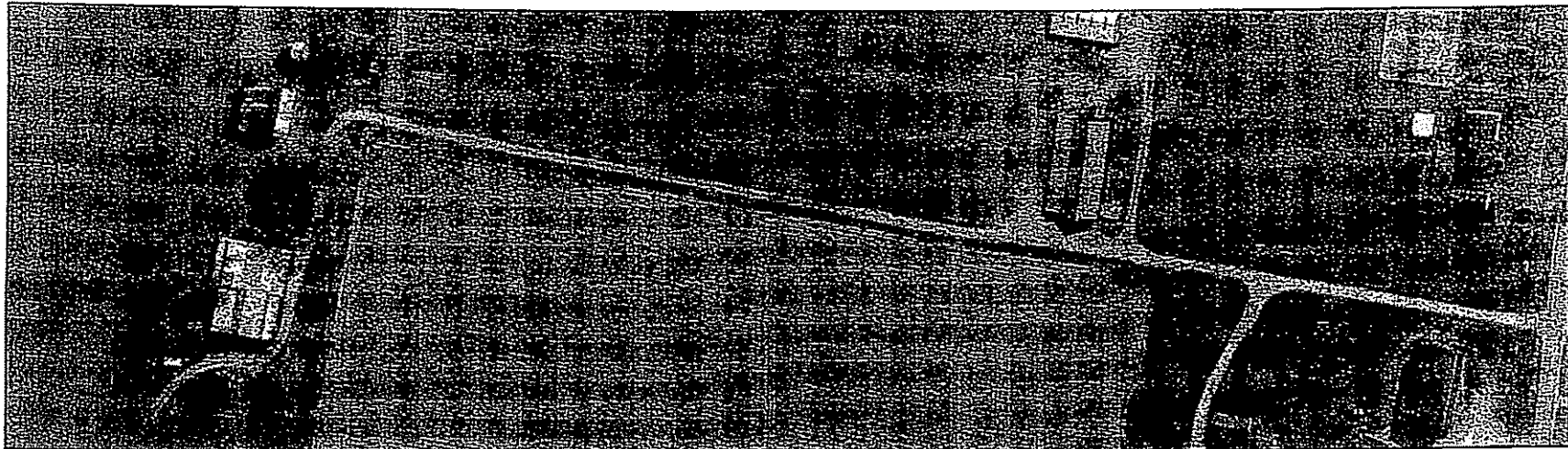




PHOTO: 8/14/07 BY J. B. BROWN

THE BIDDING DOCUMENTS SHALL BE OPENED AT 10:00 A.M. ON MONDAY, JANUARY 21, 2007, AT THE OFFICE OF THE DISTRICT ENGINEER, OLDHAM COUNTY WATER DISTRICT, 1000 WEST MAIN STREET, BUCKNER, KENTUCKY.

NOTE:
 1. INSTALL NEW RAW WATER MAIN 10 FEET (6" TO 12") FROM EXISTING 24 INCH RAW WATER MAIN FROM STA. 54+50 TO STA. 57+50. THE OWNER WILL LOCATE THE EXISTING 24 INCH RAW WATER MAIN.

STA. 45+50 TO STA. 57+88 E.O.L. RAW WATER MAIN OLDHAM COUNTY WATER DISTRICT BUCKNER, KENTUCKY		GRW PROJECT NO. 3257-06	
		<small> THE BIDDING DOCUMENTS SHALL BE OPENED AT 10:00 A.M. ON MONDAY, JANUARY 21, 2007, AT THE OFFICE OF THE DISTRICT ENGINEER, OLDHAM COUNTY WATER DISTRICT, 1000 WEST MAIN STREET, BUCKNER, KENTUCKY. </small>	
 GRW Engineers, Inc. Engineers, Architects, Planners <small> 1000 West Main Street Buckner, Kentucky 40009 </small>	DATE:	JAN. 2007	
	DRAWN BY:	JWB	
	CHECKED BY:	JWB	
	APPROVED BY:	JWB	
REVISIONS:		SCALE:	SHEET NO.
		1" = 30'	7

f

f



DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, LOUISVILLE
CORPS OF ENGINEERS
P. O. BOX 59
LOUISVILLE, KENTUCKY 40201-0059
March 28, 2008

APR - 1 2008

Operations Division
Regulatory Branch (South)
ID No. LRL-2007-01376-pjl

Mr. John B. Weil
GRW Engineers, Incorporated
11909 Shelbyville Road, Suite 100
Louisville, Kentucky 40243

Dear Mr. Weil:

This is in regard to your application dated September 25, 2007, on behalf of the Oldham County Water District, concerning a proposal to construct a raw water main in connection with the water transmission improvements in Oldham County, Kentucky. The 24-inch raw water main would be installed within the right-of-way along Covington Ridge Road.

Based on the information provided by you, it does not appear that a Department of the Army permit will be needed since the property referenced above does not include or contain any "waters of the United States (U.S.)." "Waters of the U.S." include all waters which are currently used, were used in the past, or may be susceptible to use in interstate or foreign commerce.

If the project would necessitate the discharge of dredged or fill material into "waters of the U.S.," including wetlands, plans should be submitted for our review.

Our comments on this project are limited to only those effects which may fall within our area of jurisdiction and thus does not obviate the need to obtain other permits from state or local agencies. Lack of comments on other environmental aspects should not be construed as either concurrence or nonconcurrence with stated environmental effects.

If we can be of any further assistance, please contact us by writing to the above address, ATTN: CELRL-OP-FS, or call me at (502) 315-6693. Any correspondence on this matter should refer to our ID Number LRL-2007-01376-pjl.

Sincerely,



Pam Loeffler
Regulatory Specialist
Regulatory Branch

Copy furnished:

Ms. Sandra Gruzesky
Assistant Director
Environmental and Public Protection Cabinet
Division of Water
14 Reilly Road
Frankfort, Kentucky 40601



3257-06

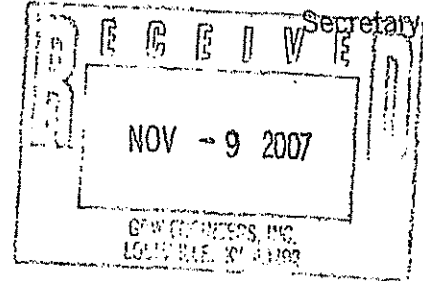
ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Ernie Fletcher
Governor

Division of Water
14 Reilly Road
Frankfort, Kentucky 40601-1190
www.kentucky.gov

Teresa J. Hill
Secretary

November 7, 2007



Mr. Phillip Ward, Superintendent
Oldham County Water District
PO Box 51
Buckner, KY 40010

RE: Oldham County Water District, AI # 3360
PWSID # 0930333-07-013
Raw Water Main
Activity ID # APE20070013
Oldham County

Dear Mr. Ward:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 5,000 feet of 24-inch DI water line. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the following construction stipulations:

1. If sanitary features of the approved plans are to be changed during construction, the engineer shall submit the revision to the Division of Water for approval prior to implementation of the modification. Written approval from the Division of Water must be granted prior to on-site work dedicated to the adjustment.
2. When this project is completed, the engineering firm for the project shall submit a written certification of project completion and as-built drawings to Oldham County Water District. The written certification shall be signed by a licensed professional engineer and indicate that the above referenced water facilities have been constructed and tested in accordance with the approved plans.
3. Following receipt of both the as-built drawings and the written certification, Oldham County Water District shall submit to the Division of Water a copy of the as-built drawings, the written certification signed by the licensed profession engineer, and a cover letter stating that the above referenced water facilities will be operated consistent with the approved plans and specifications.

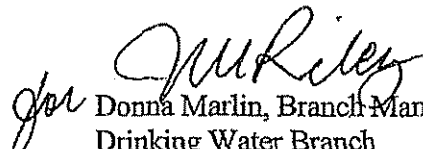
Raw Water Main /
PWSID # 0930333-07-013
AI # 3360, APE20070013
November 7, 2007
Page 2 of 2

Unless construction of this project is begun within 1 year from the issuance date of this permit, the permit shall expire. If requested prior to the permit expiration, an official extension from the Division of Water may be granted. If this permit expires, the original plans and specifications may be resubmitted for a new comprehensive review.

This approval has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this approval does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies.

If you have any questions regarding this correspondence, please contact Keith Metzker at 502/564-3410, extension 557.

Sincerely,


Donna Marlin, Branch Manager
Drinking Water Branch
Division of Water

DM:MR:KM

C: Steve Vogelsberg, GRW Engineers
Oldham County H.D.
Public Service Commission

TRANSMISSION MAIN
(3236-04)



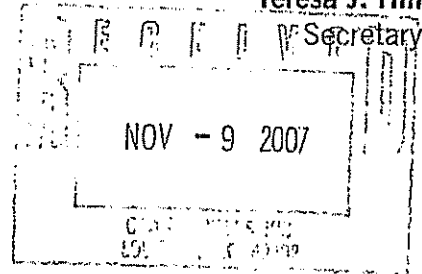
ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Ernie Fletcher
Governor

Division of Water
14 Reilly Road
Frankfort, Kentucky 40601-1190
www.kentucky.gov

November 7, 2007

Teresa J. Hill



Mr. Phillip Ward, Superintendent
Oldham County Water District
PO Box 51
Buckner, KY 40010

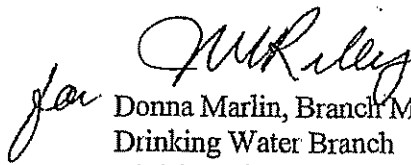
RE: Oldham County Water District, AI # 3360
PWSID # 0930333-07-013
Transmission Main
Activity ID # APE20070013
Oldham County

Dear Mr. Ward:

We have reviewed the plans and specifications for the above referenced project. The plans include the construction of approximately 3,000 feet of 30-inch DI water line and 15,000 feet of 36-inch DI water line. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the requirements contained in the enclosed major construction permit.

If you have any questions regarding this decision, please contact Keith Metzker at 502/564-3410, extension 557.

Sincerely,


Donna Marlin, Branch Manager
Drinking Water Branch
Division of Water

DM:MR:KM

C: Steve Vogelsberg, GRW Engineers
Oldham County H.D.
Public Service Commission



TRANSPORTATION CABINET

Ernie Fletcher
Governor

Department of Highways District 5 Office
977 Phillips Lane
P.O. Box 37090
Louisville, KY 40233
(502) 267-6411

Bill Nighbert
Secretary

Marc Williams
Commissioner of Highways

February 28, 2007

**Oldham County Water District
Phillip Ward
3707 W Hwy 146
LaGrange KY 40031**

Permit No. 05-0156-07, 05-0157-07, 05-0158-07 & 05-0159-07

Your application for an encroachment permit has been approved by the Department of Highways. We are returning two (2) copies of the approved permit. One copy of the permit is for your record and files, the other is to be on the work site at all times. Failure to have this permit at the site could result in a stop-work order by the Department of Highways.

The "Manual on Uniform Traffic Control Devices" (MUTCD) is the accepted national standard for all traffic control. All traffic control measures used must be in compliance with the MUTCD.--

Please contact this office prior to beginning the work and also when the work has been completed. Please see that the work is done in strict conformity with the permit and any other applicable conditions (see form TC99-21 and any other attached documents, conditions, or specifications). The permit will be released when the permitted work and any necessary restoration has been completed.

Please contact this office if you have any questions.

Sincerely,

District Permits

dsm

KENTUCKY TRANSPORTATION CABINET
 Department of Highways
 Permits Branch

TC 99-1
 Rev. 3/99

Released Date:

ENCROACHMENT PERMIT

PERMIT NO 05-0158-07

<p>APPLICANT IDENTIFICATION:</p> <p>NAME: <u>Oldham County Water District</u></p> <p>CONTACT PERSON: Phillip Ward, OCDW Superintendent</p> <p>ADDRESS: 3707 W Hwy 146</p> <p>CITY: LaGrange</p> <p>STATE: Kentucky ZIP CODE: 40031</p> <p>PHONE: area code (502) 222-1690</p>	<p>PROJECT IDENTIFICATION:</p> <p>ACCESS CONTROL <input checked="" type="checkbox"/> By Permit <input type="checkbox"/> Partial <input type="checkbox"/> Full</p> <p>COUNTY: Oldham PRIORITY ROUTE NO: <u>KY524</u></p> <p>MILEPOINT: 3.0 <input checked="" type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> X-ing</p> <p>PROJECT STATUS: <input checked="" type="checkbox"/> Maint. <input type="checkbox"/> Const <input type="checkbox"/> Design</p> <p>PROJECT # STATE: N/A <u>MP-093-0524-003.0</u></p> <p>PROJECT # FEDERAL: N/A</p> <p>ROAD/STREET NAME: KY-524</p>
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<p>TYPE OF ENCROACHMENT:</p> <p><input type="checkbox"/> COMMERCIAL ENTRANCE - BUSINESS</p> <p><input type="checkbox"/> PRIVATE ENTRANCE: <input type="checkbox"/> Single Family <input type="checkbox"/> Farm</p> <p><input checked="" type="checkbox"/> UTILITY: <input type="checkbox"/> Overhead <input checked="" type="checkbox"/> Underground</p> <p><input type="checkbox"/> GRADE: <input type="checkbox"/> Fill <input type="checkbox"/> Landscape on R/W</p> <p><input type="checkbox"/> AIRSPACE: <input type="checkbox"/> Agreement <input type="checkbox"/> Lease</p> <p><input type="checkbox"/> OTHER: (Specify):</p> <p>TYPE OF INDEMNITY: <input type="checkbox"/> Bond <input type="checkbox"/> Cash</p> <p><input checked="" type="checkbox"/> SELF-INSURED AMOUNT ENCUMBERED \$ <u>1200.00</u></p> <p><input type="checkbox"/> OTHER</p> <p>NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE:</p>	<p>ATTACHMENTS:</p> <p><input checked="" type="checkbox"/> Standard Drawings (List on TC 99-21 under Misc.)</p> <p><input checked="" type="checkbox"/> Applicant's Plans</p> <p><input type="checkbox"/> Highway Plan and Profile Sheets</p> <p><input type="checkbox"/> TC 99-3 (Ponding Encroachment Specs. & Conditions)</p> <p><input type="checkbox"/> TC 99-4 (Rest Area Usage Specs. & Conditions)</p> <p><input type="checkbox"/> TC 99-5 (Tree Cutting/Trimming Specs. & Conditions)</p> <p><input type="checkbox"/> TC 99-6 (Chemical Use of Specs. & Conditions)</p> <p><input checked="" type="checkbox"/> TC 99-10 (Typical Hwy. Boring Crossing Detail)</p> <p><input type="checkbox"/> TC 99-12 (Overhead Utility Encroachment Diagram)</p> <p><input type="checkbox"/> TC 99-13 (Surface Restoration Methods)</p> <p><input checked="" type="checkbox"/> TC 99-21 (Encroachment Permit General Notes & Specs.)</p> <p><input type="checkbox"/> TC 99-22 (Agreement for Services to be Performed)</p> <p><input type="checkbox"/> TC 99-23 (Mass Transit Shelter Specs. & Conditions)</p> <p><input type="checkbox"/> Other Attachments (Specify):</p>
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INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of \$ 1200.00 as determined by the Department, It shall be the responsibility of the applicant or Permittee, his heirs and assignees to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.

BRIEF DESCRIPTION OF WORK TO BE DONE: (If private entrance, show sketch with pipe location. Separate attached drawings required for encroachments other than private entrances)

Starting at mile point 3.0 on KY-524 construction of approximately 76 linear feet of 36" ductile iron water main will be bored and jacked in a 50' steel encasement pipe beneath KY-524 as shown on the attached plan.

IMPORTANT (PLEASE READ): Applicant does does not Intend to apply for excess R/W

When the work is completed in accordance with the terms of this encroachment permit, your indemnity will be released. However, the permit is effective until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect as long as the encroachment exists **FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITTEE.** It is important that you understand the requirements of this encroachment permit application and accompanying documents. If you have not done so, it is suggested that you review these documents and place the permit package in a safe place for future reference.

A copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment permit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

IN THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE RIGHT-OF-

KENTUCKY TRANSPORTATION CABINET
 Department of Highways
 Permits Branch

TC 99-1
 Rev 3-88

Released Date:

ENCROACHMENT PERMIT

PERMIT NO. 05-6159-C

<p>APPLICANT IDENTIFICATION:</p> <p>NAME: <u>Oldham County Water District</u></p> <p>CONTACT PERSON: <u>Phillip Ward, OCDW Superintendent</u></p> <p>ADDRESS: <u>3707 W. Hwy 146</u></p> <p>CITY: <u>LaGrange</u></p> <p>STATE: <u>Kentucky</u> ZIP CODE: <u>40031</u></p> <p>PHONE: <u>area code (502) 222-1690</u></p>	<p>PROJECT IDENTIFICATION:</p> <p>ACCESS CONTROL <input checked="" type="checkbox"/> By Permit <input type="checkbox"/> Partial <input type="checkbox"/> Full</p> <p>COUNTY: <u>Oldham</u> PRIORITY ROUTE NO: <u>US 42</u></p> <p>MILEPOINT: <u>11.7</u> <input checked="" type="checkbox"/> Left <input checked="" type="checkbox"/> Right <input checked="" type="checkbox"/> X-ing</p> <p>PROJECT STATUS: <input checked="" type="checkbox"/> Maint <input type="checkbox"/> Const <input type="checkbox"/> Design</p> <p>PROJECT # STATE: N/A <u>MP-093-0042-0011.7</u></p> <p>PROJECT # FEDERAL: <u>N/A</u></p> <p>ROAD/STREET NAME: <u>US-42</u></p>
<p>TYPE OF ENCROACHMENT:</p> <p><input type="checkbox"/> COMMERCIAL ENTRANCE - BUSINESS</p> <p><input type="checkbox"/> PRIVATE ENTRANCE: <input type="checkbox"/> Single Family <input type="checkbox"/> Farm</p> <p><input checked="" type="checkbox"/> UTILITY: <input type="checkbox"/> Overhead <input checked="" type="checkbox"/> Underground</p> <p><input type="checkbox"/> GRADE: <input type="checkbox"/> Fill <input type="checkbox"/> Landscape on R/W</p> <p><input type="checkbox"/> AIRSPACE: <input type="checkbox"/> Agreement <input type="checkbox"/> Lease</p> <p><input type="checkbox"/> OTHER: (Specify):</p> <p>TYPE OF INDEMNITY: <input type="checkbox"/> Bond <input type="checkbox"/> Cash</p> <p><input checked="" type="checkbox"/> SELF-INSURED AMOUNT ENCUMBERED \$ <u>1200.00</u></p> <p><input type="checkbox"/> OTHER</p> <p>NAME AND ADDRESS OF LOCAL INSURANCE AGENCY OR SELF-INSURED REPRESENTATIVE:</p>	<p>ATTACHMENTS:</p> <p><input type="checkbox"/> Standard Drawings (List on TC 99-21 under Misc.)</p> <p><input checked="" type="checkbox"/> Applicant's Plans</p> <p><input type="checkbox"/> Highway Plan and Profile Sheets</p> <p><input type="checkbox"/> TC 99-3 (Ponding Encroachment Specs & Conditions)</p> <p><input type="checkbox"/> TC 99-4 (Rest Area Usage Specs. & Conditions)</p> <p><input type="checkbox"/> TC 99-5 (Tree Cutting/Trimming Specs & Conditions)</p> <p><input type="checkbox"/> TC 99-6 (Chemical Use of Specs. & Conditions)</p> <p><input checked="" type="checkbox"/> TC 99-10 (Typical Hwy. Boring Crossing Detail)</p> <p><input type="checkbox"/> TC 99-12 (Overhead Utility Encroachment Diagram)</p> <p><input type="checkbox"/> TC 99-13 (Surface Restoration Methods)</p> <p><input checked="" type="checkbox"/> TC 99-21 (Encroachment Permit General Notes & Specs)</p> <p><input type="checkbox"/> TC 99-22 (Agreement for Services to be Performed)</p> <p><input type="checkbox"/> TC 99-23 (Mass Transit Shelter Specs. & Conditions)</p> <p><input type="checkbox"/> Other Attachments (Specify):</p>

INDEMNITY: The applicant, in order to secure this obligation, has deposited with the Transportation Cabinet as a guarantee of conformance with the Department's Encroachment Permit requirements, an indemnity in the amount of \$ 1200.00 as determined by the Department. It shall be the responsibility of the applicant or Permittee, his heirs and assignees to keep all indemnities in full force until construction or reconstruction has been completed and duly accepted by an authorized agent of the Transportation Cabinet, Department of Highways.

BRIEF DESCRIPTION OF WORK TO BE DONE: (If private entrance, show sketch with pipe location. Separate attached drawings required for encroachments other than private entrances.)

Starting at mile point 11.7 on US-42 construction of approximately 83 linear feet of 36" ductile iron water main will be bored and jacked in a 50" steel encasement pipe beneath US-42 as shown on the attached plan.

IMPORTANT (PLEASE READ): Applicant does does not intend to apply for excess R/W

When the work is completed in accordance with the terms of this encroachment permit, your indemnity will be released. However, the permit is effective until revoked by the Transportation Cabinet and the terms on the permit accompanying permit documents and drawings remain in effect as long as the encroachment exists. **FUTURE MAINTENANCE OF THE ENCROACHMENT IS THE RESPONSIBILITY OF THE PERMITTEE.** It is important that you understand the requirements of this encroachment permit application and accompanying documents. If you have not done so, it is suggested that you review these documents and place the permit package in a safe place for future reference.

A copy of this permit and all documents shall be given to your contractor and shall be readily available at the work site for the encroachment permit inspector to review at all times. Failure to meet this requirement may result in cancellation of this permit.

IN THE EVENT THIS APPLICATION IS APPROVED, THIS DOCUMENT SHALL CONSTITUTE A PERMIT FOR THE APPLICANT TO USE THE RIGHT-OF-

**WATER TREATMENT
PLANT (3257-07)**



PLAN APPLICATION FORM
 ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
 DEPARTMENT OF PUBLIC PROTECTION
 OFFICE OF HOUSING, BUILDINGS AND CONSTRUCTION
 DIVISION OF BUILDING CODE ENFORCEMENT & DIVISION OF PLUMBING
 101 SEA HERO ROAD, SUITE 100
 FRANKFORT, KENTUCKY 40601-5405



BUILDING CODES: 502/ 573-0373 PLUMBING: 502/ 573-0397

NOTE: Complete all applicable spaces

Today's Date: 09-05-07 REV.11/2004

NAME OF PERSON SUBMITTING PLANS: <u>Steve Vogelsburg</u>		Phone: <u>(502)489-8484Ext</u>	IS THE BCE PLAN REVIEW FEE INCLUDED WITH PLANS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
MAILING ADDRESS: <u>11909 Shelbyville Road</u>		<u>Louisville</u>	<u>KY</u>	<u>40243-</u>
BUSINESS & PROJECT NAME: <u>Oldham County Water District, Water Treatment Plant Expansion / Improvements</u>		(Or tenant name if multi-tenant building)		
PROJECT LOCATION: _____		_____	<u>KY</u>	_____
PROJECT LOCATED WITHIN CITY LIMITS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CITY STATE ZIP CODE		
OWNER (INDIVIDUAL & COMPANY): _____		PHONE () - Ext		
MAILING ADDRESS: _____		_____	_____	_____
ARCHITECT (NAME & FIRM) <u>Mark Siever, S+A ARCHITECTURE, INC.</u>		_____	<u>STATE</u>	<u>ZIP CODE</u>
AS THE ARCHITECT LISTED ABOVE, I AM RESPONSIBLE FOR CONSTRUCTION CONTRACT ADMINISTRATION		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
MAILING ADDRESS: <u>108 Esplanade, Suite 340</u>		<u>Lexington</u>	<u>KY</u>	<u>40507-</u>
NOTES: DESIGN CERTIFICATION IS REQUIRED FOR ALL PROJECTS. SEE THE DIVISION OF PLUMBING FOR A LIST OF REQUIREMENTS AND STANDARDS.				
ENGINEER (NAME & FIRM) <u>Steve Vogelsburg, GRW Engineers</u>		_____	_____	_____
MAILING ADDRESS: <u>11909 Shelbyville Road</u>		<u>Louisville</u>	<u>KY</u>	<u>40243 -</u>
PROJECT CONTRACTOR		PHONE () - Ext		
MAILING ADDRESS: <u>TBD</u>		_____	_____	_____
BUILDING INFORMATION				
NUMBER OF BUILDINGS IN THIS SUBMITTAL:	<u>2</u>	USE OF BUILDING(S) (e.g., restaurant, office, classroom, storage or other (please specify))	<u>Water Treatment</u>	
BUILDING(S) IN THIS PROJECT IS / ARE:	<input checked="" type="checkbox"/> NEW FREESTANDING BUILDING	<input type="checkbox"/> NEW ADDITION TO EXISTING STRUCTURE	<input checked="" type="checkbox"/> RENOVATION ONLY	<input type="checkbox"/> RENOVATION & ADDITION
TOTAL AREA IN NEW BLDG. OR ADDITION:	<u>2,922</u> FT ²	NUMBER OF LEVELS (INCLUDING BASEMENT):	<u>1</u>	BASEMENT <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
TOTAL AREA IN EXISTING BLDG.:	<u>2,804</u> FT ²	DATE CONSTRUCTION TO BEGIN:	<u>TBD</u>	ESTIMATED COMPLETION DATE: <u>TBD</u>
TYPE OF PLAN SUBMITTALS				
BUILDING PLAN SUBMITTALS (Check the type of evaluations requested at this time)		SHOP DRAWING PLAN SUBMITTALS (Check the type of evaluations requested at this time)		
BUILDING PLAN REVIEW (BCE)		PLUMBING PLAN REVIEW		
Full Building Review	<input checked="" type="checkbox"/>	Plumbing Review ONLY	<input checked="" type="checkbox"/>	Suppression System (Sprinkler, CO ² , Etc.)
Expedited Site & Foundation Review	<input type="checkbox"/>	Water Supply Review	<input type="checkbox"/>	Alarm Systems
Expedited Tenant Fit-up Review	<input type="checkbox"/>	Waste Water Review	<input type="checkbox"/>	Boiler System
Partial Evaluation (please specify)	<input type="checkbox"/>	Other (please specify)	<input type="checkbox"/>	Bleacher Sealing
SUBMIT ONLY ONE SET FOR BCE		SUBMIT ONLY ONE SET OF PLANS FOR THE ABOVE		
THE INFORMATION IN THIS SECTION IS FOR THE DIVISION OF PLUMBING TO BE COMPLETED BY PERSON SUBMITTING PLANS				
DESIGN CAPACITY OF BUILDING:	NO. OF MALES <u>1</u>	NO. OF FEMALES <u>1</u>	ARE RESTROOMS ACCESSIBLE TO PUBLIC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
SEWAGE DISPOSAL:	TYPE: <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Private	ARE RESTROOMS ACCESSIBLE TO DISABLED?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
WATER SUPPLY:	<input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> DRILLED WELL <input type="checkbox"/> PUBLIC <input type="checkbox"/> HAULED WATER <input type="checkbox"/> ROOF WATER <input checked="" type="checkbox"/> PUBLIC <input type="checkbox"/> STREAM	IF PRIVATE, INDICATE THE TYPE AND THE DESIGN:		
BY WHOM: _____				
NAME		TITLE		REGISTRATION NUMBER

THIS SECTION TO BE COMPLETED BY THE LOCAL HEALTH DEPARTMENT OFFICIAL. (Must be completed prior to sending Plumbing Plans to Frankfort)

REVIEWED BY: Judith Kufella
 NAME
HEALTH INSPECTOR
 TITLE
10-20-07
 DATE

APPROVED BY (COUNTY OR DISTRICT HEALTH DEPARTMENT)

THIS AREA FOR OFFICE USE ONLY

3257-07



ERNIE FLETCHER
GOVERNOR

Teresa J. Hill
Secretary

Commonwealth of Kentucky
ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
Office of Housing, Buildings and Construction
Division of Plumbing
101 Sea Hero Road, Suite 100
Frankfort, Kentucky 40601
Telephone: (502) 573 - 0397
October 30, 2007

Oldham County Health Department
1786 Commerce Pkwy
LaGrange, Kentucky 40031

SP 83379
024472-000-A/001-0
OP 5

RE: Oldham Co. Water Dist. Water Treatment Plant Hwy 524 Westport, Ky

Dear Sir:

This is to advise you that plans covering the above captioned project are approved for the plumbing system only by the Division of Plumbing as of this date *as to code*.

It should be understood that this approval is limited to the proposed plumbing installation only.

Inspections must be requested before any part of this plumbing is covered under the floor or concealed in the walls. A final inspection and air test must be requested after all plumbing fixtures have been set. If a private sewage disposal system or water system if used they also must be inspected.

We are returning two sets to you with one set for your file. One set of the approved plumbing plans shall be on the construction site for the plumbing inspectors review and comments.

This approval is valid only if construction is begun within one year from this date. If you have any questions concerning this project, please contact the Division of Plumbing at (502) 573-0397.

Very truly yours,

Timothy R. House

Tim House
Director
Division of Plumbing

TH/pgn

Cc: Oldham County Plb. Insp.
Steve Vogelsburg(plans)



EQUAL OPPORTUNITY EMPLOYER M/F/D

6

6



cc: sv/ss

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Ernie Fletcher
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-2150
FAX (502) 564-4245
www.dep.ky.gov

Teresa J. Hill
Secretary

Cheryl A. Taylor
Commissioner

January 31, 2007

FEB 12 2007

Russell D. Rose
Oldham County Water District
PO Box 51
Buckner, KY 40010

RE: Oldham County Water District, PWS--3360
DW #0930333-06-013
Water Treatment Plant Expansion
Activity ID # APE20060013
Oldham County

Dear Mr. Rose:

We have reviewed the plans and specifications the above referenced project. The plans include construction of a new chemical and high service building with the addition of Sodium Hypochlorite to the treatment process, renovation of the existing chemical building to remove all existing chemical feed and storage, installation of baffling on the two existing clear wells, and other miscellaneous water treatment plant building renovations. This is to advise that plans and specifications covering the described water treatment plant improvements are APPROVED with respect to sanity features of design as of this date with the following stipulations:

1. All pipes and equipment which can convey potable water shall be disinfected in accordance with current AWWA procedures.
2. All work shall be performed in accordance with the approved plans and specifications.
3. Work pertaining to the fluorosilicic acid shall be performed in accordance with the Department for Public Health outlined in the attached memorandum.
4. Vents shall discharge to the outside atmosphere above grade and remote from air intakes.
5. Liquid chemical storage tanks shall have a receiving basin capable of receiving accidental spills or overflows without uncontrolled discharge. A common receiving basin may be provided for each group of compatible chemicals provided the basin is large enough to

- prevent accidental discharge in the event of failure of the largest tank.
6. Fluorosilicic acid bulk tanks shall have a valved drain.
 7. Fluorosilicic acid day tanks shall be vented independently of the respective bulk tanks.
 8. Fluorosilicic acid should be injected into the lower half of the finished water line.
 9. Nonstandard receptacles shall be utilized for each electric chemical pump.
 10. When changes to the fluorosilicic acid room are completed, contact Bob Murphy of the Oral Health Program at (502) 564-3246 ext 3778.
 11. Prior to construction, notify the Water Quality Management Section of the Division of Water and, if required, revise the applicable water withdrawal permit.
 12. If sanitary features of the approved plans are to be changed during construction, the engineer shall submit the revision to the Division of Water for approval prior to implementation of the modification. Written approval from the Division of Water must be granted prior to on-site work dedicated to the adjustment.
 13. When this project is completed, the owner shall submit a written certification to the Division of Water that the above referenced water facilities have been constructed and tested in accordance with the approved plans. Such certification shall be signed by a licensed professional engineer.
 14. When this project is completed, the engineer shall submit as-built drawings to the Division of Water.

Unless construction of this project is begun within 1 year from the issuance date of this permit, the permit shall expire. If requested prior to the permit expiration, an official extension from the Division of Water may be granted. If this permit expires, the original plans and specifications may be resubmitted for a new comprehensive review.

Once the treatment plant expansion is completed, the following operating stipulations will apply until future construction, modification, or correspondence from the Division of Water changes the applicability of the stipulations. Further, if a stipulation is changed or deemed to be no longer applicable, unaffected stipulations shall not be voided.

1. The rated potable water production of Oldham County's potable water treatment plant following construction shall be 13 million gallons per day or 9028 gallons per minute (due to chlorine CT).
2. Oldham County's potable water treatment plant is designated as Class IVB and shall remain designated as Class IVB following construction.

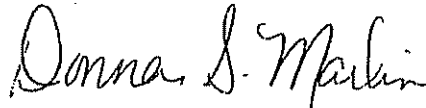
Water Treatment Plant Expansion
DW #0930333-06-013
January 31, 2007
Page 3

3. Standards contained in 401 KAR Chapter 8 applicable to community water systems serving at least 3,300 people, providing treatment without filtration, and utilizing chemical disinfection of ground water not under the direct influence of surface water shall apply.

This approval has been issued under the provisions of KRS Chapter 224 and regulations promulgated pursuant thereto. Issuance of this approval does not relieve the applicant from the responsibility of obtaining any other approvals, permits or licenses required by this Cabinet and other state, federal and local agencies. Water withdrawal and KPDES permits are not included in this approval and are the responsibility of the Oldham County Water District.

If you have any questions regarding this correspondence, please contact Robert Wade at 502/564-2225, extension 595.

Sincerely,



Donna Marlin, Branch Manager
Drinking Water Branch
Division of Water

DM: MR: RFW

C: Steve Vogelsberg, GRW Engineering, Inc.
Oldham County Health Department
Louisville Regional Office
Drinking Water Files



ERNIE FLETCHER
GOVERNOR

CABINET FOR HEALTH AND FAMILY SERVICES
DEPARTMENT FOR PUBLIC HEALTH
275 EAST MAIN STREET, HS1GWA
FRANKFORT, KENTUCKY 40621-0001
(502) 564-3970 (502) 564-9377 FAX

Mark D. Birdwhistell
Secretary

MEMORANDUM

TO: Robert Wade, E.I.T.
Permits & Plans Review Section
Drinking Water Branch
Division of Water

FROM: Robert Murphy, Health Program Administrator *Rm*
Oral Health Program
Department for Public Health

DATE: January 23, 2007

SUBJECT: DW # 0930333-06-013
Oldham Water Treatment Plant
Oldham County, Kentucky

In accordance with the operating protocols between the Environmental & Public Protection Cabinet and the Cabinet for Health & Family Services, I have reviewed the above plans and make the following recommendations and/or comments.

1. The fluoride feed room should be a separate room and have a power fan vented to the outside atmosphere. This vent fan should be located close to the ceiling.

2. Metering pumps shall be sized to operate in the mid-range of their capacity and mounted not more than 4 feet above the solution tank.
3. The day tank size should be about a **two day supply** and **should be mounted on scales** to record the daily weight loss of hydrofluosilicic acid. The day tank should be vented to outside atmosphere. Lines connected to the day tank should be flexible enough to allow the scales to work properly.
4. A berm should be built around the bulk tank that would contain 80% of the bulk tanks content or a smaller berm with a floor drain leading to a containment area should be installed.
5. All fittings should be compatible with hydrofluosilicic acid
6. When this project is completed, the Oral Health Program should be notified for start-up approval. (Bob Murphy, (502) 564-3246 ext 3778)

3257



JAN 15 2008

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

Steven L. Beshear
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
300 FAIR OAKS LANE
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-2150
FAX (502) 564-4245
www.dep.ky.gov

Robert D. Vance
Secretary

R. Bruce Scott
Commissioner

January 10, 2008

Mr. Phillip Ward, Superintendent
Oldham County Water District
PO Box 51
Buckner, Kentucky 40010

RE: Oldham County Water District PWS
AI: #3360, APE 20060013
PWSID #0930333-06-013
Water Treatment Plant Expansion
Oldham County, Kentucky

Dear Mr. Ward:

In response to the January 7, 2008 letter from GRW Engineers, please be advised that the approval is hereby valid for another year. Therefore, the new expiration date for the above referenced project is January 10 2009. All stipulations of the January 31, 2007 letter shall continue to apply.

If construction of this project does not commence within the allotted time frame, the approval shall again expire and plans and specifications will have to be resubmitted to this office for review and approval. If you have any questions concerning this project, please contact Mike Riley, PE, at 502/564-8158, extension 592.

Sincerely,

Donna S. Marlin
Donna S. Marlin, Manager
Drinking Water Branch
Division of Water

DSM: JMR

C: GRW Engineers
Oldham County Health Department
Public Service Commission
Drinking Water Files



WELLS 12 and 13
(3257-05)



STEVEN L. BESHEAR
GOVERNOR

ROBERT D. VANCE
SECRETARY

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

January 8, 2008

William D Baker
Oldham Co Water District
3707 West Highway 146
P.O.Box 51
Buckner, KY 40010

Water Withdrawal Permit: #0842
Activity ID Number: APE20070009

Dear Mr. Baker:

Thank you for your application for a revised water withdrawal permit. This letter accompanies permit #0842 which authorizes withdrawals from a field of ten wells (#4-#13) located up to 1,000 feet from the south bank of the Ohio River at mile 401 (580 bP) in Oldham County with geographic coordinates of latitude 38° 29' 28.23" longitude 85° 28' 26.63".

In accordance with this permit, water withdrawals are limited to the following rates from the specified location:

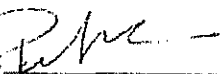
Jan. <=5.0 MGD (MA)	April <=5.0 MGD (MA)	July <=6.0 MGD (MA)	Oct. <=5.0 MGD (MA)
Feb. <=5.0 MGD (MA)	May <=5.0 MGD (MA)	Aug. <=6.0 MGD (MA)	Nov. <=5.0 MGD (MA)
March <=5.0 MGD (MA)	June <=6.0 MGD (MA)	Sept. <=6.0 MGD (MA)	Dec. <=5.0 MGD (MA)

Please refer to the enclosed permit which specifies all conditions associated with this withdrawal, including monitoring and compliance requirements

The issuance of this permit does not release you from the obligation of obtaining any and all other permits that may be required by this Division or other regulatory agencies

If you have any questions, please contact Chris Yeary or Rita Hockensmith at (502) 564-3410.

Issued this 8th day of January 2008.

By: 
Peter T. Goodmann, Manager
Watershed Management Branch
Division of Water

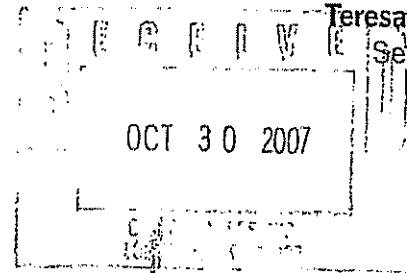
PTG:cy
Enclosure
cc: Louisville Regional Office



ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION

Ernie Fletcher
Governor

Division of Water
14 Reilly Road
Frankfort, Kentucky 40601-1190
www.kentucky.gov



Teresa J. Hill
Secretary

October 19, 2007

Mr. Phillip Ward, Superintendent
Oldham Co Water District
3707 W KY 146
LaGrange, KY 4001031

RE: Oldham Co Water District,
PWS--3360
DW #0930333-07-014
New Water Supply Wells #12 & 13
Activity ID # APE20070014
Oldham County, KY

Dear Mr. Ward :


We have reviewed the plans and specifications for the above referenced project. The plans include two new wells rated at 1,400 GPM @ 110 feet of TDH. This is to advise that plans and specifications for the above referenced project are APPROVED with respect to sanitary features of design, as of this date with the following stipulations:

- The wells must not be located within 50 feet of septic tanks, within 70 feet of drain fields, or near any other known source of contamination;
- No sewer pipes are to be installed within 20 feet of the well;
- The well must be constructed by a certified well driller as described in 401 KAR 6:310 Section 3(1);
- Within 30 days of well construction, the driller shall submit a report of construction to the Cabinet on the form entitled Kentucky Water Well Record (DEP-4045); and
- When this project is completed, the owner shall submit a written certification to the Division of Water that the above referenced water facilities have been constructed and tested in accordance with the approved plans. Such certification shall be signed by a licensed professional engineer.

- o Please also be aware that the nitrates are within compliance, but on the high side, as seems to be the case as of late with all of the wells in this aquifer. At 5.0 mg/l, quarterly monitoring will be required.

If you have any questions regarding this decision, please contact Sarah Tucker at 502/564-8158, extension 482.

Sincerely,

for 
Donna Marlin, Branch Manager
Drinking Water Branch
Division of Water

DSM: SAT

C: GRW Engineers, Inc.
Oldham County H.D.
Public Service Commission
Ground Water Branch

Engineering - Section 9(2) c.

- (c.) A full description of the proposed location, route, or routes of the new construction or extension, including a description of the manner in which same will be constructed, and also the names of all public utilities, corporations, or persons with whom the proposed new construction or extension is likely to compete.

There will be three (3) separate construction contracts for this project, one for the raw water main and transmission main, one for the water treatment plant and one for wells 12 and 13. The design has been completed and all permits have been obtained. The next step is advertising for bids. Once bids are received, contractors will be selected and construction will begin. The contractor will use conventional construction techniques to complete these contracts. All of the projects will affect only the Oldham County Water District; no other utilities will be involved.

Raw Water Main –

The 24-inch raw water main will be located in Westport Kentucky. It will extend from the existing well field along KY 524 for approximately 2,350 l.f. then extend across private property for approximately 2,400 l.f. to the water treatment plant.

Transmission Main –

The 36-inch transmission main will extend from the water treatment plant in Westport Kentucky, cross under KY 524, and extend cross-country through three (3) property owners to US 42. At this point, it will reduce to a 30-inch main and extend west along US 42 for approximately 2,700 l.f. and connect to an existing main.

Water Treatment Plant –

The existing water treatment plant is located in Westport Kentucky off of KY 524. The upgrades to the existing plant will take place on site and will include a new chemical feed building and high service pump station located behind the existing building.

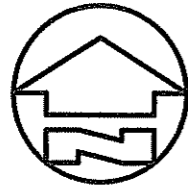
Wells 12 and 13 –

Wells 12 and 13 are located along the Ohio River in Westport Kentucky off of Covington Ridge Road. They are located approximately 4,500 feet from the intersection of Westport Road and Covington Ridge Road.

Engineering - Section 9(2) d.

- (d.) Three (3) maps to suitable scale (preferably not more than two (2) miles per inch) showing the location or route of the proposed new construction or extension, as well as the location to scale of any like facilities owned by others located anywhere within the map area with adequate identification as to the ownership of such other facilities.

Attached are two (2) maps (three (3) copies of each) showing first, a zoomed out view of the Oldham County Water District with the projects called out. Shown second is a zoomed in view of the three (3) projects.

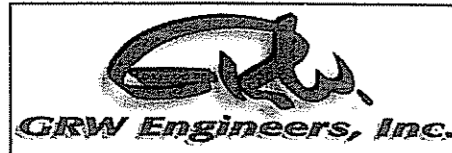


Explanation

- ★ OCWD Treatment Plant
- ▭ OCWD Service Area
- ▨ LaGrange Utilities Service Area
- ▩ Areas of Oldham County not Serviced by OCWD
- Roads

0 4,500 9,000
Feet

June 2008



Map Document: (I:\3257-OCWD Wells, RW, WTP\3257-07 WTP\Condensed PER for PSC Submittal\Prelimnar Eng Report for PSC\exhibit_V1-1.mxd) 6/10/2008 - 8:47:45 AM

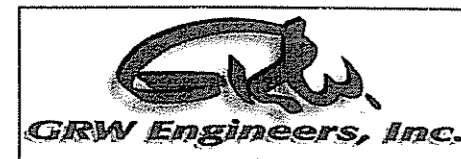


Explanation

- ★ OCWD Treatment Plant
- ▭ OCWD Service Area
- ▨ LaGrange Utilities Service Area
- ▩ Areas of Oldham County not Serviced by OCWD
- Roads

0 4,500 9,000
Feet

June 2008



Map Document: (I:\3257-OCWD Wells, RW, WTP\3257-07 WTP\Condensed PER for PSC Submittal\Prelimnar Eng Report for PSC\exhibit_V1-1.mxd) 6/10/2008 - 8:47:45 AM



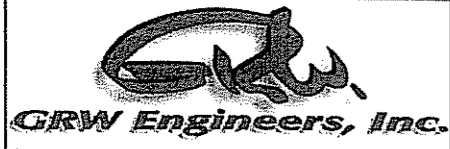
Explanation

- ★ OCWD Treatment Plant
- OCWD Service Area
- LaGrange Utilities Service Area
- Areas of Oldham County not Serviced by OCWD
- Roads

0 4,500 9,000 Feet

June 2008

Map Document: (s:\3257-OCWD Wells, RW, WTP\3257-07 WTP\Condensed PER for PSC Submittal\Preliminary Eng Report for PSC\exhibit_V1-1.mxd) 6/10/2008 - 8:47:45 AM





Wells 12 & 13

Raw Water Main

Water Treatment Plant

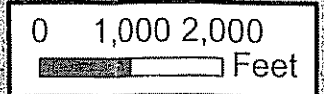
High Service
Transmission Main

COVINGTON RDG RD

WESTPORT RD

US 42

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Explanation

- ★ OCWD Treatment Plant
- ∩ Roads



Wells 12 & 13

Raw Water Main

Water Treatment Plant

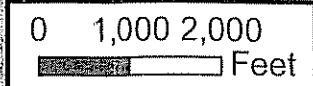
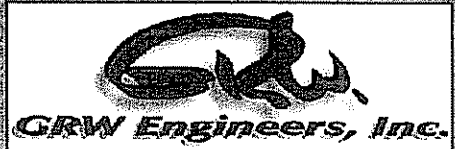
High Service
Transmission Main

COVINGTON RDG RD

WESTPORT RD

US 42

Map Documents (13257-OCWD Wells, RW, WTR)3257-07 WTRCondensed PER for PSC SubmittalPreliminar Eng Report for PSCzoomed in_raw_wp_(ans.mxd)
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Explanation

- ★ OCWD Treatment Plant
- ∩ Roads



Wells 12 & 13

Raw Water Main

Water Treatment Plant

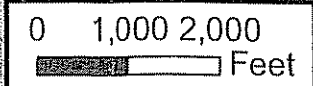
High Service
Transmission Main

COVINGTON RDG RD

WESTPORT RD

US 42

Map Document: I:\3257-OCWD Wells, RW, WTR\3257-07 WTP\Condensed FER for PSC Submittal\Preliminar Eng Report for PSC\zoomed in_raw_wip_trans.mxd
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Explanation

- ★ OCWD Treatment Plant
- ∩ Roads

Engineering - Section 9(2) e.

- (e.) The manner, in detail, in which it is proposed to finance the new construction or extension.

Oldham County Water District
Financing for new project/extension

Oldham County Water District plans to utilize the following funding sources for the upcoming project/extension:

1. Sell bonds
2. Financing from Rural Development at 4.75%
3. Grant funds \$680,408.00

Engineering - Section 9(2) f.

- (f.) An estimated cost of operation after the proposed facilities are completed.

Operating Costs

- Two new wells
Estimated incremental additional operating expenses for 2 more wells: \$15,000
- Raw water main
Estimated incremental additional operating expenses: \$5,000
- Water treatment plant expansion
Estimated incremental additional operating expenses: \$65,000
- Transmission mains
Estimated incremental additional operating expenses: \$40,000

Total Operating Cost of Proposed Facilities: \$125,000/year

Engineering - Section KRS322.340

Engineering plans, specifications, plats and report for the proposed construction. The engineering documents prepared by a registered engineer, requires that they be signed, sealed, and dated by an engineer registered in Kentucky.

Copies of plans and specifications for the submittal are included.

-KRS 322.340-