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PUBLIC SERVICE
COMMISSION

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

IN THE MATTER OF:

AN INVESTIGATION INTO THE ADEQUACY)
OF THE WATER SUPPLY OF MAGOFFIN)
COUNTY WATER DISTRICT)

CASE
NO. 2008-000443

SUPPLEMENT TO PREVIOUSLY FILED TESTIMONY OF JULIE RONEY
ON BEHALF OF THE ENERGY AND ENVIRONMENT CABINET
DIVISION OF WATER

1 At the request of Salyersville Water Works (SWW) I met with Nora Bauer (water plant
2 operator), Thomas Howard (water superintendent) and Kevin Howard (Summit Engineering) at
3 the Salyersville water treatment plant on December 30, 2008. The purpose was to discuss the 18
4 deficiencies noted in the November 21, 2008 inspection. We discussed options for correcting the
5 deficiencies and Kevin provided information on attempts to locate funding.

6 SWW submitted its written response to the 18 deficiencies on January 16, 2009. See,
7 DOW Exhibit 7. The response is being reviewed both by DOW and the Division of
8 Enforcement.

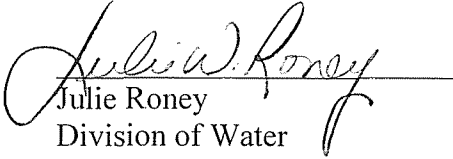
9 SWW was referred to the Division of Enforcement on December 11, 2008. The
10 objective of the referral is to identify actions to be taken to improve SWW's overall operations
11 and response to water shortage issues so that there is no recurrence of the 2008 water shortage
12 emergency in Salyersville and Magoffin County, to include completion dates and submission of
13 supporting documentation when the necessary actions are completed.

14 SWW's compliance monitoring reports submitted in January, 2009 document turbidity
15 treatment technique violations for December 2008 and total trihalomethane and haloacetic acid
16 maximum contaminant level (MCL) violations for the 4th quarter of 2008 (October through
17 December). Compliance Determinations for these violations were issued to SWW on January 6,
18 2009. See, DOW Exhibits 8 and 9. Compliance Determinations for turbidity and for
19 TTHM violations were issued on February 5, 2009. See, DOW Exhibits 10 and 11.

20 The only correspondence I have had with SWW since December 30 has been to discuss
21 how to handle electronic on-line monitoring after the ice storm crippled their data monitoring
22 system.

23

1 I certify that the foregoing statements are true and accurate to the best of my knowledge
2 after reasonable investigation, and adopt them as my sworn testimony, as if under oath.
3
4
5
6
7


Julie Roney
Division of Water

CERTIFICATE OF SERVICE

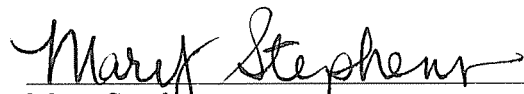
I hereby certify that on the 8th day of February, 2009
a true and accurate copy of the foregoing Supplement to the
Previously Filed Testimony of Julie Roney, and attached
Exhibits were served by facsimile to the following:

Honorable Gregory D. Allen
Collins & Allen
Counsel for Salyersville Water Works
FAX # 606-349-1322

Honorable David Edward Spenard
Office of the Attorney General
FAX # (502) 564-2894

Honorable John C. Collins
Collins & Allen
FAX # 606-349-1322
Counsel for Magoffin County Water District

Honorable Gerald Wuetcher
Honorable Virginia Gregg
Public Service Commission
FAX # (502) 564-3460


Mary Stephens

Case Chronology (list starting with oldest and ending with most recent)

<u>Date</u>	<u>Action</u>	<u>Comments</u>
Date	Action	Comments
8/25/08	Letter to Salyersville Water Works (SWW) authorizing use of groundwater wells	DOW Exhibit 1
8/27/2008	Water not flowing over dam on Licking River	
9/2/2008	Salyersville/Magoffin Co WD issue water shortage advisory	
9/2008	SWW begins using the 2 backup emergency wells	Can only supply ~50% of demand
9/22/2008	Lost 1 of the 2 well pumps	Repaired within 2 days
9/23/2008	River level 13” below crest of dam	
9/25/2008	Both water systems formally requested assistance from governor	
9/26/2008	DOW issues water shortage warning	Exhibit 2
9/30/2008	Salyersville begins removing debris and siltation in river	Issues with proper disposal and compliance with COE and 401 permitting—these were resolved
10/7/2008	Boil Water Advisory (county-wide)	Due to elevated finished water turbidity
10/10/2008	Governor issues Emergency Declaration re: water shortage issued	
10/12-14/2008	Shipments of bottled water delivered	
10/24/2008	Interconnection to Paintsville complete but not utilized	Salyersville never used this connection and had many excuses
10/28/2008	Magoffin County WD completes connection to Paintsville but does not utilize	MCWD also had many excuses

10/31/2008	BWA from 10/7 lifted	
11/13/2008	Poor water quality in Licking River causing increased turbidity and decreased chlorine residuals; BWA issued	Due to color/organics/manganese (confirmed thru DOW testing that the issues were with the River and not the wells)
11/21/2008	DOW conducts Inspection of SWW plant	Numerous operations/maintenance and water quality issues noted; DOW Exhibits 3 and 4
11/25/2008	BWA lifted	
12/09/08	Compliance Determinations issued to SWW for period 10/01-10/31/08; one (1) for turbidity and one (1) for chlorine	DOW Exhibit 5
12/11/2008	Letter to SWW re: conditions and violations observed during 11/21/08 inspection	DOW Exhibit 6; recommendations include: review/revise water shortage response plan, develop plan for purchasing water from Paintsville Utilities
12/11/08	DOW refers SWW to Division of Enforcement	Objective: improved response to water shortage to prevent recurrence of 2008 emergency, inclu use connection to Paintsville, update water shortage plan, etc.
12/30/08	DOW meets with SWW staff to discuss 18 deficiencies observed during 11/21/08 inspection	
1/13/09	DOW receives SWW written response to 18 deficiencies	DOW Exhibit 7
1/14/09	Compliance Determinations issued to SWW for period 11/01-11/30/08, one (1) for chlorine and one (1) for turbidity	DOW Exhibits 8 and 9
2/5/09	Compliance Determinations issued to SWW for period 10/01-12/31/08 for turbidity and Total Haloacetic Acids	DOW Exhibits 10 and 11



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
PHONE (502) 564-3410
www.dep.ky.gov
August 25, 2008

Leonard K. Peters
Secretary

R. Bruce Scott
Commissioner

Mr. Thomas Howard
Salyersville Municipal Water
401 College Street
Salyersville, Kentucky 41465

RE: PWSID# KY0770566
Wells

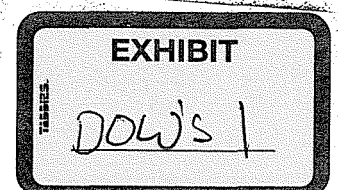
Dear Mr. Howard:

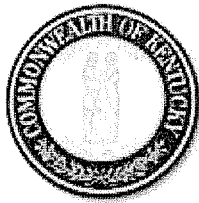
Due to the low flows in the Licking River at the Salyersville drinking water intake, the Division of Water is aware that Salyersville Municipal Water will begin using their groundwater wells as a supplemental source. The groundwater use is authorized as "back up status" under Salyersville's water withdrawal permit #1022. As the wells were tested in 2007 prior to use at that time, it is not necessary to test again this year.

The daily groundwater usage should be reported separately on both the Monthly Operating Report (MOR) and Water Withdrawal Report. If you have any questions, contact either myself at 502/564-3410 or Chris Yeary at 5025564-6716 (temporary phone number).

Sincerely,

Julie W. Roney
Compliance & Technical Assistance
Division of Water





Energy and Environment Cabinet

For Immediate Release

**Contact: Chris
Yeary, Division of
Water, 502-545-
3580**

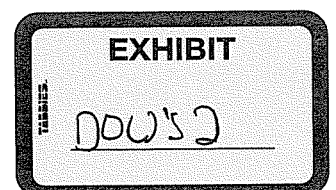
MAGOFFIN ISSUED WATER SHORTAGE WARNING *Water shortage watch extended*

(FRANKFORT, Ky.) Sept. 26, 2008 -- The Division of Water (DOW) has issued a water shortage warning for Magoffin County in eastern Kentucky due to critically low water levels in the Licking River.

A water shortage warning is issued when one or more water supply systems in an area have entered the emergency phase of water shortage. A critically low water level in the Licking River at Salyersville is threatening the ability of Salyersville Municipal Water to supply its customers, including the Magoffin County Water District, its largest wholesale customer.

DOW is also expanding a water shortage watch originally issued for Harlan and Letcher counties to include all or portions of Breathitt, Clay, Knott, Leslie, Owsley and Perry counties. The water shortage watch includes those citizens relying on underground mines and wells for water. A water shortage watch is issued when drought conditions have the potential to threaten the normal availability of drinking water supply sources.

DOW officials study rainfall amounts, reservoir levels, streamflows, the Palmer Drought Index and the Drought Monitor when determining drought status. Moderate to severe drought conditions are in place for portions of eastern Kentucky as a result of the rainfall deficit. Annual precipitation is 83 percent of normal for the Eastern Climatic Division and the 30- and 60-day precipitation totals are 48 and 60 percent of normal, respectively.



Drought conditions are not limited to the watch and warning areas. The 30-day precipitation totals for the Western, Central and Bluegrass climatic divisions range from 30 to 40 percent of normal. However, annual rainfall amounts have been normal or above-normal, and the majority of water sources in these areas are large rivers, lakes and deep aquifers. As such, the potential for water shortages remains low in these areas.

Because September and October are typically the driest months of the year in Kentucky, residents should be aware of the increasing potential for water shortages, especially in the water shortage watch/warning areas. Citizens in the watch and warning areas are encouraged to adhere to all requests made by their local water supplier to help reduce demand for water. They are encouraged to limit car washing and outdoor watering, avoid hosing down patios and driveways and limit use of clothes washers and dishwashers.

The Kentucky Division of Emergency Management (KYEM) is monitoring the water shortage situation in the affected counties.

“I have been in touch with the Governor’s office regarding this issue,” said KYEM Director Gen. John W. Heltzel. “We have and will continue to coordinate any support necessary to return services to normal as soon as possible for these communities.”

For more information on drought conditions, water availability and conservation tips, visit the Division of Water’s drought Web site at <http://www.water.ky.gov/wateruse/drought/>

Salyersville Water Works

From: Fleck, Allison (EEC) [Allison.Fleck@ky.gov]
Sent: Thursday, November 13, 2008 4:26 PM
Subject: Boil Water Advisory Issued for Magoffin County



ENERGY AND ENVIRONMENT CABINET

Gov. Steven L. Beshear

Dr. Len Peters, Secretary

Contact:
Allison Fleck, Division of Water
859-312-9506

For Immediate Release

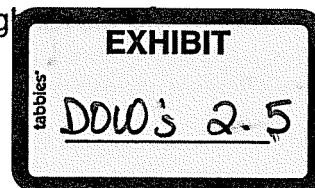
Boil water advisory issued for Magoffin County *Low water in the Licking River diminishing quality*

FRANKFORT, Ky. (Nov. 13, 2008) – The Kentucky Department for Environmental Protection has issued a boil water advisory for Magoffin County resulting from poor water conditions in the Licking River.

The river is the primary source of water supply for the Magoffin County Water District and the City of Salyersville. Both water systems are served by Salyersville Municipal Water. Approximately 15,000 people are affected by the advisory.

A boil water advisory is a preventive measure to protect the health of the community from waterborne infectious agents. An advisory is issued after careful consideration among representatives from public health, regulatory and municipal agencies.

While water levels in the Licking River have risen slightly since a state of emergency was declared Oct. 10 due to low flow, the accumulation of leaves and high



manganese have diminished the quality of the water, said Julie Roney, drinking water coordinator at the Division of Water.

"We have been working with the water utility to adjust the chlorine levels to mitigate these issues, but so far the additional applications have been insufficient to maintain the required minimum residual chlorine level in the distribution system," she said. "This advisory was issued in the interest of public safety."

Heavy leaf content causes the water to turn dark as the organic material deteriorates. High manganese levels are common when water is drawn from lower depths of supply sources. While neither of these conditions is harmful, it becomes difficult to "feed" enough chlorine to resolve the problem and continue to protect against bacteria.

"The chlorine is simply used up in the process of cleaning the water," said Roney. "There is, then, no chlorine left over to protect the distribution system."

Magoffin County residents are advised to prepare water for drinking, cooking and tooth brushing by bringing it to a rolling boil for three minutes (timing starts when the water begins to bubble). Cool the water, then place it in clean containers for use or refrigerate.

Hot, soapy water can be used for dishwashing and kitchen/bathroom surface cleaning. As a precaution, add one tablespoon of bleach per gallon. Water for laundering and bathing does not need to be boiled.

- 30 -



**ENERGY AND ENVIRONMENT CABINET
 KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION
 DIVISION OF WATER
 Routine Surface Inspection**

Site/Permit ID: 0770566	Division: Water	Regional Office: Hazard
Site Name: Salyersville Municipal Water	Program: Drinking Water	
Site Address: 401 College street		
City: Salyersville	State: KY	Zip: 41465
County: Magoffine		AI #: 2889
Inspection Type: Routine Surface	Purpose: Comprehensive	AI #: 2889
Inspection Date: 11/21/08	Time: Start 9:30 AM End 12:30 PM	
Latitude: 37 44 21	Longitude: 83 04 00.9	
Coordinate Collection Method: G40-Handheld receiver		Revision Code: 112108

Drinking Water Data

Plant Name: Salyersville Municipal Water	Contact Name: Nora Bauer	
Phone No.: (606)349-3743	Fax No:	Email Address:

I. Administrative Requirements

Comments:

I. Compliance Status - No violations observed

II. Operator Certification/Accreditation Requirements

Operator in Charge or on duty.

Operator Name	Plant Certification #	Distribution Certification #
Nora Bauer	IIIA 51050	
Adam Hunley	IIIA 17738	IID 02431

Comments:

II. Compliance Status - No violations observed

III. Record Keeping Requirements

Comments:

III. Compliance Status - No violations observed



Comments: The online chlorine analyzer is not working. It has not worked for over a year.

V. Compliance Status - Out of Compliance- No action taken

VI. Discharge/Emission Compliance

Comments:

VI. Compliance Status - No violations observed

VII. Monitoring/Analyses Evaluation

Comments:

VII. Compliance Status - No violations observed

VIII. Environmental /Health Impact

Work Site Hazard Assessment : ATTACHED REVIEWED

Comments:

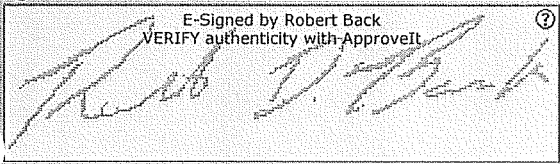
VIII. Compliance Status – No violations observed

IX. Documentation

- Samples taken by DEP
- Samples taken by outside source
- Instrument readings taken by DEP regional office
- Photographs obtained by DEP
- Copies of records obtained by DEP
- Other documentation

Inspector: Robert Back	Title: Environmental Inspector II	Date: 11/21/08
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Signature:



E-Signed by Robert Back
VERIFY authenticity with ApproveIt

ENERGY AND ENVIRONMENT CABINET
KENTUCKY DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER

Drinking Water Sanitary Survey

PWS ID: KY0440566

Regional Office: Hazard Regional Office

Agency Interest Number: 2889

AI Name: Salyersville Municipal Water

AI Address: 401 College Street

City: Salyersville State: KY Zip: 41465

County: Magoffin

Latitude: Longitude:

Coordinate Collection Method: GIS Generated - Electronic Topo Map (DRG)

Inspection Dates: November 21, 2008

PWS Name: Salyersville Municipal Water Plant Address: 401 College Street Office Address: 401 College Street

Plant Contact: Nora Bauer Plant Type: Community Plant Class: IIIA

Distribution Class: IID Phone Number: 606/349-3743 Fax Number: E-Mail Address:

System Service Connections (meters): 983

System Population Served Calculated: 3244 Reported:

Total No. Purchasers: 1

How many meters are served outside of your system 3309

Consecutive Systems Population Served Calculated: 10920

Treatment

Primary Source: Licking River Secondary Source: Gardner Wells

Maximum Pumping Rate:

Plant Capacity MGD: 1.0 MGD GPM: 694

Filter Design Rate (gpm/ft²): 3 gallons/minute/square foot

Total Distribution Storage Capacity (gallons): 1 million gallons

Total Clear well Size (gallons): 200,000 gallons

Pre-sedimentation Size: NA

Aeration: NA

Sedimentation (Primary) Code: Conventional with Tubes

Sedimentation 2 (if 2 different processes) Type:

Filter (Primary) Code: Dual Media

Filter 2 (if 2 different filter types) Type:

Chemicals

Pre-Disinfection/Treatment Code: Chlorine Gas (150 pound cylinders)

Post-Disinfection Code: Chlorine Gas

Primary Coagulant Code: Polyaluminum chloride (DelPac 2020)

Secondary Coagulant (Name):

Filter Aid Name:

Corrosion Control Code: pH adjustment with lime

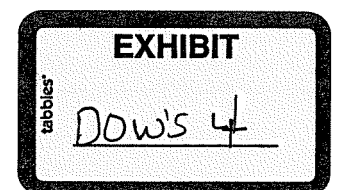
Taste and Odor Code: Powdered activated carbon

Softening Code:

Iron (and Manganese) Removal Code:

Fluoride Supplement Code: Sodium silicofluoride

Observations: No ability or contact time to apply permanganate



Operator Compliance:

Yes No

Is the system in compliance with 401 KAR 8:030? (Verify certification with DCA and on site with operator certification cards.)

What is the attitude of the staff? Administration: Operators: OK

Yes No

Are the operators cross-trained (by shift, by plant, with distribution, with maintenance, etc)?

Yes No

Do you have contingency plans for replacing retiring system personnel?

Yes No

Does the system offer continuing education opportunities for distribution and plant operators?

Who are the training/technical assistance providers for license renewal?

(✓ all that apply): DOW KRWA DCA RCAP AWWA

KWWOA OTHER

What type of training is typically obtained? (✓ all that apply):

SAFETY WATER QUALITY UMI REGULATIONS

Yes No

Does the system pay for registration, lodging and meals?

Yes No

Does the system allow operators to attend training on company time?

Yes No

Does the plant have operators with the appropriate class certificate?

Yes No

Is the number of operators adequate to cover needed shifts, vacations, & vacancies?

Yes No

Are the certifications up-to-date?

Yes No

Is there shift operation at the plant?

Length of shift Day shift is 6 am - 4 pm; second shift is 4 pm to 4 am

Number of operators per shift for Plant: 1 Distribution: 1

Number of shifts/day 2

How are weekends and holidays covered? Same as week day

Yes No

Does this system have unmanned operations?

Yes No

Do operators leave the water plant property while the plant is producing water?

How long are the operators typically away from the plant? 1 hour--Nora shuts plant down w/

out sampling in the distribution system

What duties are they performing when they are away from the plant? sampling

LICENSEE NAME	LICENSE ID	LICENSE TYPE
Nora Bauer (lead operator)	IIIA	
Adam Hunley	IID	
Henry C. Williams	IIIA	

Observations:

Compliance Status – Only 2 certified water treatment operators; night shift on weekends is worked by an uncertified staff person (will qualify for the Class III test in March 2009).

Management and Operations:

Yes No

Does the system have a governing board that meets regularly?

How often does this body meet? Water Board that meets monthly

Yes No

Do operators attend?

Yes No N/A

Is the governing board provided regular and timely written information regarding technical, managerial, and financial operations of the water system? (Inspect)

Yes No

Are the board members familiar with water treatment?

Yes No

Does the system offer continuing education opportunities for governing board members?

Yes No

Does the system have a defined organizational structure with a written description of each job classification with minimum position qualifications? (Inspect)

Yes No

Have there been any changes since the last Sanitary Survey?

If yes, explain: Martin Vanderpool (lead operator) left for another position; Nora Bauer move

that position

Yes No

Does the system have written policies and procedures governing human resource management (such as the employment of handovers)?

Yes No

Is the system subject to Public Service Commission regulations?

What professional organizations does the water system belong to? _____

Yes No

Does the system have an asset management program that includes replacement and renewal?

Yes No

Does the system have a written plan to address pending and current regulatory requirements, growth, infrastructure renewal, and system deficiencies? (Provide)

How are they developed? _____

Who provides input into these needs? _____

Yes No N/A

Are the operators involved?

Yes No

Does the system attend Area Development District Meetings?

Yes No

Does the system periodically review its insurance coverage to ensure it's in place for liability, property, automobile, directors, and officers?

Yes No

Does the system have available under a current contract, retainer or other similar arrangement to professional services including engineering, accounting, and legal counsel?

Yes No

Does the system have a written policy for delegation of authority such as signing agreements, contracts, resolutions, easements, etc.?

Yes No

Are chemicals inventoried? If so, how? _____

Yes No

Are distribution materials inventoried? If so, how? _____

Yes No

Is there a bid process for chemicals, pipe, or large item purchases?

Yes No

Does the system have standard specifications for design and construction of the water distribution system?

Yes No

Does each component of the WTP meet 10 state standards?

Yes No

Does the system prohibit new connections where pressure on the discharge side of the meter will be less than 30 psi?

Yes No

Is the system able to meet minimum pressure requirements of KDOW and/or other regulating authority?

Yes No

If system's average daily demand (including volume of water specified through contracts) exceeds 85% of available capacity or water available through purchase contract, does system have a plan for additional capacity, including cost and timeframes, to address the needed additional capacity? (Check ONLY IF COW is 85% or higher)

Yes No

Do all pumping facilities have firm capacity (the capacity to meet demand with one pump out of service) during peak demand?

Yes No

Does the system track lost water on a regular basis?

If so what is the percentage of water lost? _____

Financial:

- Yes No **Does the system maintain its financial records utilizing the Kentucky Uniform System of Accounting or a comparable system? (Inspect)**
- Yes No **Does the system prepare an annual operating budget? (Provide summary)**
- Yes No **Does the system prepare an annual capital budget? (Inspect)**
Who prepares the budget? _____
- Yes No Do the operators have any input into the budget?
- Yes No **Does the governing board review and approve the budget?**
- Yes No **Does the system prepare regular monthly reports to show variances between budgeted and actual revenue and expenses? (Inspect)**
- Yes No **Does the system employ a method for depreciation of system assets? (Inspect)**
- Yes No Is the system operating at a retained earnings surplus? (Retained earnings is the net income that is available at the end of the year and available for transfer.)
- Yes No Is the current debt-to-equity ratio below 1.0? (The debt-to equity ratio for any given year is computed by dividing cash available for debt service (net income with annual interest, depreciation, amortization, and other non-cash items added back) by debt service requirements for the year.)
- Yes No Does the water system meet a debt coverage ratio of 1.2? (Debt coverage ratio is computed by dividing cash available for debt service (net income with annual interest, depreciation, amortization, and other non-cash items added back) by debt service requirements for the year.)
- Yes No Does the water plant revenue go to meet other city/district/association expenses (such as electric, sewer or garbage)?
- Yes No **Are financial statements audited by a CPA per applicable requirements (KRS 65.065, 91A.040, 96.185, etc.)? (Inspect)**
- Yes No N/A **If audit completed, does the governing board review and accept the audit report?**
- Yes No Are training and license funds built into the budget?
- Yes No Are general accounting procedures followed?
- Yes No N/A Does the system have written procedures for internal control of transactions (*i.e., customer deposits, accounts receivable, statements*)?
- Yes No N/A Is there a written policy for delinquent accounts?
What is it? _____
- Yes No N/A **Is there an approved rate structure in place? (Provide copy of rate sheet)**
When was the last rate increase? _____
- Yes No **Does the system perform an annual review to determine if the rates fully cover the expenses?**
- Yes No N/A Are long-term needs built into rate increases?
- Yes No N/A Do rates promote conservation in time of drought?
- Yes No Does the system have any long-term debts?
- Yes No N/A **Is the system current on all debt service payments?**
- Yes No Does the system write off bad debt annually?
- Yes No **For accounts payable, has the system kept payments less than 45 days past due over the last 12 months? (Inspect)**
- Yes No **Is the system meeting reserve account requirements?**
- Yes No Does the system have a good credit rating (for obtaining bonds, etc)?
Where does the system typically go for financial assistance? _____
- Yes No Does the system have a capital improvement plan? (Provide)
How many years does the plan cover? _____
- Yes No **Does the system have a written procurement policy for purchasing supplies and obtaining professional and non-professional services, including spending authority by personnel level? (Inspect)**
What is the day-to-day spending authority of the plant superintendent? _____
What is the emergency spending authority of the plant superintendent? _____

Observations:

Water Purchased Not Applicable

Purchased From:	Number of Master Meters	Amount Monthly (average)	Amount Available by Contract (monthly)

Water Sold Inspected

Water Sold To:	Number of Master Meters	Amount Monthly (average)	Amount Available by Contract (monthly)
Magoffin County WD KY0770525	9	15 MGD	19 MGD

N/A Producers

What is the annual average cost for your system to produce 1,000 gallons of water? \$ _____

N/A Sellers

What is your highest whole sale price which you charge per 1,000 gallons of water? \$ _____

What is your lowest whole sale price which you charge per 1,000 gallons of water? \$ _____

N/A Purchasers

What is the highest wholesale price you pay per 1,000 gallons of water? \$ _____

What is the lowest wholesale price you pay per 1,000 gallons of water? \$ _____

Documentation:

- Photographs obtained by DEP
- Copies of records obtained by DEP
- Instrument readings taken by DEP
- Other documentation

Staff: Julie W. Roney (Compliance and Technical Assistance Branch, DOW)	Title: Environmental Scientist II	Date: November 21, 2008
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Overall Compliance Status
<input type="checkbox"/> No Violations Observed
<input type="checkbox"/> No Violations Observed - Advisory Action Taken (Impending trends)
<input type="checkbox"/> Out of Compliance – Verbal notice given (Non-recurrent deficiency noted or violation corrected at time of insp.)
<input checked="" type="checkbox"/> Out of Compliance – Warning Notice issued (Non-recurrent administrative or O & M deficiency noted)
<input type="checkbox"/> Out of Compliance – NOV issued

General Comments: See attached cover letter

TECHNICAL INSPECTION OF PLANT AND DISTRIBUTION SYSTEM OPERATIONS

Include a plant schematic indicating the following details:

- Source water type/location
- Major unit processes (including baffling factors and volumes)
- Flow measurement locations
- Chemical injection locations
- Piping Flexibility (including number of raw and finished water mains)
- Waste handling

Intake Structure:

Location	Type	Number of Inlets	Screen Size	Is Flooding a problem	Is silt build-up a problem
Licking River	Fixed			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
Gardner Well Field	Fixed			Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
				Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>
				Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

Number of raw water mains: 1

Is raw water pumped? Or gravity fed?
 Yes No Is raw water flow measured?

If so when was the meter last calibrated? _____

Yes No List any chemicals fed at the source: None

If source is a reservoir is it aerated?

Yes No List depths of intake levels (normal pool): _____

Are screens stationary? Or mechanical?

Yes No Is screen clogging a problem?

Yes No Are Zebra mussels a problem?

If yes list actions taken: _____

How often are the submerged portions of the intake inspected? _____

When was the date of the last inspection? _____

Observations:

1. 2 submersible pumps in the Licking River at 2 different levels;
2. Cannot bring water from the wells and the river into the plant at the same time

Sedimentation Basins Inspected

Type	Number of Trains/ Stages	Volume (gallons)	% with tube settlers	Physical Condition
Conven. w/ tubes	2 1			Good

List any chemicals fed in the sedimentation process: _____

What is the sedimentation turbidity goal? _____

What is the overflow rate of the basins? _____

If an Actiflo process, what is the rise rate? _____

How often are the basins cleaned? Last cleaned in July 2008

How often is sludge removed from the basins? Sludge is removed 3-4 times a week; this has to be done manually from a panel outside next to the sed basins

Is sludge removal mechanical? Or manual?

What is the sludge depth at the time of the inspection? _____

What is the settled water turbidity at the time of the inspection? 0.26 NTU

Yes No

Is there evidence of short-circuiting (Flow or density currents)?

Yes No

Is baffling present in the basins?

If yes, describe the baffling _____

If multiple sedimentation basins, describe the piping from the basins to the filters _____

Yes No

Is there evidence of floc carryover to the filters?

Filters

Number of Filters 2

Type	Media Type	Filter Rate (at insp)	Filter Control	Surface Wash Type	Filter to Waste	Filter Area	Physical Condition
High Rate	Dual Media				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
					Yes <input type="checkbox"/> No <input type="checkbox"/>		

*Plant flow rate divided by total square footage of filters in service at the time of inspection

List any chemicals fed in the filtration process: _____

What is the filtered water turbidity goal? _____

Yes No

Does this apply to the combined filter effluent?

Yes No

To individual filter effluents?

What criteria are used for filter backwash? _____

What is the backwash rate in gallons per minute? _____

Yes No

Is filter backwash rate ramped up and down?

Yes No

Is backwash flow rate measured?

Yes No

Are filters ever bumped?

Yes No

Is air scouring used?

Record the CFE turbidity at time of inspection 0.65 NTU

Yes No

Are individual filters monitored for turbidity?

Yes No

Is this turbidity continuously recorded?

Yes No

Can this data be retrieved in usable form from storage (tape or CDs)

Yes No

Is filter to waste (rewash) present?

Yes No

Is it used?

Yes No

Can turbidity be measured while filtering to waste?

Yes No

Are flows adjusted on remaining in-service filters during a backwash

Residuals Handling

What percent of plant production is used for in-plant processes (backwash, chemical feed, sanitary)? _____

How are spent backwash water and other liquid residuals handled? Holding tank then discharged to the Licking River below the intake

- Yes No If applicable, Is the spent backwash holding tank/lagoon volume adequate?
- Yes No Does the plant discharge water from this tank/lagoon back to a body of water?
- Yes No Does the plant have a KPDES discharge permit? If so, Permit Number _____
- Yes No Is the discharge meeting permit requirements?
- Yes No Is the discharge point upstream of the intake?
- If Yes, how far upstream is the discharge point from the intake? _____
- Yes No Is spent backwash water recycled?
- Is it recycled as a "slug"? Or as a constant flow?
- What % of the flow is recycled? _____
- Yes No Are chemical feed rates adjusted during recycling?
- Yes No Are raw water flows adjusted during recycling?
- Yes No Are all recordkeeping requirements of the *Filter Backwash Rule* being followed?
- How are solid residuals handled? _____

Chemical Feed Equipment

Chemical Name	Purpose	Feeder Type	Feed Point	Number & Condition
Polyaluminum Cl/SO4	Coagulation	Metering Pump	Quick/Flash Mix	
Lime	pH Adjustment	Gravimetric	Quick/Flash Mix	
Sodium silicofluoride	Dental Health	Gravimetric	Quick/Flash Mix	
Powdered Activated Carbon	Taste Odor	Gravimetric	Quick/Flash Mix	

How are chemical feeders calibrated? Not known

How often are chemical feeders calibrated? Not known

- Yes No Are chemical dosages calculated?
- How often are dosages calculated? Dosages set based on raw water turbidity and a

chart

- Yes No Are chemicals NSF or United Laboratories approved?
- Yes No Do the bulk liquid feed systems have day tanks?
- Yes No Are at least two feeders provided for essential processes (such as coagulation and disinfection)?
- Yes No Are spare parts available?
- Yes No Is there enough storage for at least 30 days supply of chemicals used?
- Yes No Are there containment areas around the chemicals in case of spills or leaks?
- Yes No Are in-plant water supplies protected from back-flow? (Cross connections):
- Yes No Does a certified tester test backflow prevention devices?
- What is the testing frequency? _____ Last Tested: _____

Gas Chlorine Safety:

- Yes No Is the chlorine room enclosed and separate from other operating areas?
- Yes No Is there a working exhaust fan in the chlorine room?
- Yes No Does it provide one complete air change per minute?
- Yes No Does it exhaust from floor level?
- Yes No Is intake air near the ceiling?
- Yes No Are switches located outside the chlorine room?
- Yes No Are chlorine tanks secured?
- Yes No Are the scales operational?
- Yes No Is automatic switchover of chlorine cylinders provided?
- Yes No Is there a shatterproof viewing window in chlorine room?
- Yes No Is there a crash bar on the door of the chlorine room?
- Yes No Does it open out and to the exterior of the building?
- Yes No Is there a SCBA unit meeting NIOSH standards out side the chlorine room?
- Yes No Are personnel trained to use the SCBA?
- Yes No Is the "buddy system" practiced when changing or moving chlorine cylinders?
- Yes No Is leak detection provided?
- Yes No If so is there an external audible and visual alarm?
- Yes No Is there a chlorine tank repair kit?
- Yes No Are personnel trained and certified to use the kits?
- Yes No Is ammonia available for chlorine leak detection?
- Yes No Is a lockout tag-out system used for electrical repairs?

Chlorine Dioxide Safety:

- Yes No Is sodium chlorite stored in a separate room?
 - Yes No Is it stored away from organic material?
- Many materials will catch fire and burn violently when in contact with chlorite.*

Gas (Anhydrous) Ammonia Safety:

- Yes No Is the ammonia room enclosed and separate from other operating areas?
- Yes No Is there a working exhaust fan in the ammonia room?
- Yes No Does it provide one complete air change per minute?
- Yes No Does it exhaust from ceiling level?
- Yes No Is intake air near the floor?
- Yes No Are switches located outside the ammonia room?
- Yes No Are ammonia tanks secured?
- Yes No Is there a shatterproof viewing window in ammonia room?
- Yes No Is there a crash bar on the door of the ammonia room?
- Yes No Does it open out and to the exterior of the building?
- Yes No Is there a SCBA unit meeting NIOSH standards out side the ammonia room?
- Yes No Are personnel trained to use the SCBA?
- Yes No Is leak detection provided?
- Yes No If so is there an external audible and visual alarm?
- Yes No How are ammonia leaks detected?
- Yes No Is a lockout tag-out system used for electrical repairs?

Observations:

1. Only 1 person changes chlorine cylinders--no buddy system;
2. The exhause fan only comes on when a leak is detected and not when the door is opened

Disinfection:

Type	Application Point	Redundancy Available	Feeder Type
Chlorine gas	Quick/Flash Mix	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Chlorinator
Chlorine gas	Clearwell	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Chlorinator
		Yes <input type="checkbox"/> No <input type="checkbox"/>	

What is the means used to measure disinfectant chemical usage? rotameter and scale

How is the disinfectant residual monitored? DPD

Yes No
 Yes No

Is there an on-line, recording chlorine analyzer on the plant tap?

Are C-Ts calculated daily?

Clearwells:

Volume (gallons)	Baffling Type	Disinfectant Residual:	
		Total	Free
200,000		2.50	2.47

List chemicals in the order in which they are fed into the clearwell: Chlorine

If multiple clearwells are they in series (one following the other)

or parallel (side by side and not connected)

Yes No
 Yes No

Are hatches secured?

Are vents screened?

How often are clear wells cleaned? Not known

Water Plant Pumps:

(Low service/raw water, high service/finished water and backwash)

Flow Stream	Location	Number of Pumps	Capacity (gpm)	Pump Type	Flow Control Method
Primary Raw Water	Licking River	2			
Secondary Raw Source	Gardner Well Field	2			
Backwash water	Pipe gallery from Clearwell	1		Vertical Turbine	
Finished Water	Pipe gallery from Clearwell	2		Vertical Turbine	

Water Plant On-line Instrumentation

Type	Flow Stream (Location)	Manufacturer	Last Calibration Date
Chlorine	Tap	Hach	
Turbidity	Individual Filter Effluent	Hach	
Turbidity	Raw Water	Hach	

Distribution Storage Facilities

Location	Volume (gal)	Tank Type	Overflow				Last Cleaned/ Inspected	Tele-metry	% Turnover (Per day)
			Screen/ Flapper	>10' From tank	Yes <input type="checkbox"/>	No <input type="checkbox"/>			
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
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			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
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			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>		
			Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No <input type="checkbox"/>		

Observations: _____

Maintenance:

- Yes No Is plant housekeeping adequate (provide maintenance schedules & procedures)?
- Yes No Is distribution storage housekeeping adequate?
- Yes No Are adequate supplies of spare parts kept on hand?
- Yes No Are needed tools available?
- Yes No What is the general condition of operating equipment?
- Yes No If not, is preventive maintenance performed?

Documentation:

- Samples taken by DEP
- Samples taken by outside source
- Instrument readings taken by DEP regional office
- Photographs obtained by DEP
- Copies of records obtained by DEP
- Other documentation

Work Site Hazard Assessment :

ATTACHED REVIEWED

Inspector: Julie W. Roney (Environmental Scientist II, Compliance and Technical Assistance Branch, DOW)	Title:	Date: 11/21/2008
--	---------------	-------------------------

Overall Compliance Status: Out of Compliance - Warning Notice Issued

Overall Comments: Also Robert Back (Inspector-Hazard Regional Office, DOW) and Chris Yeary (Watershed Management Branch, DOW)

See cover letter for deficiencies and recommendations.



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Water
200 Fair Oaks Lane
4th Floor
Frankfort, Kentucky 40601
Phone: (502) 564-3410
Fax: (502) 564-2741
www.water.ky.gov
December 9, 2008

Leonard K. Peters
Secretary

R. Bruce Scott
Commissioner

CERTIFIED MAIL: 7007 0710 0004 2993 3905
RETURN RECEIPT REQUESTED

NORA BAUER
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

Re: **COMPLIANCE DETERMINATION**
AI ID: 2889
PWSID: KY0770566
PWS NAME: SALYERSVILLE MUNICIPAL WATER
COUNTY: MAGOFFIN

Dear Mrs. Bauer:

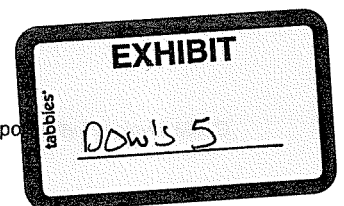
The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Compliance Determination for violations discovered at your facility. Please review this Compliance Determination carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Amber Vaughn at (502)564-3410 ext. 4983.

Sincerely,

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

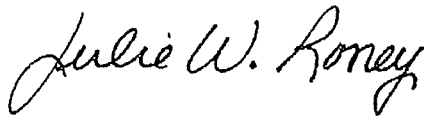


Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

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ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601



Issued By:

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: December 10, 2008

How Delivered: Certified/Registered #7007 0710 0004 2993 3905



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Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

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ENERGY AND ENVIRONMENT CABINET

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December 11, 2008

Leonard K. Peters
Secretary
R. Bruce Scott
Commissioner

Mr. Thomas Howard, Superintendent
Salyersville Municipal Water
401 College Street
Salyersville, Kentucky 41465

RE: PWSID# KY0770566
Water System Inspection

Dear Mr. Howard:

Due to the drought and water-quality related concerns in Salyersville during the late summer and fall of 2008, an inspection was conducted by the Division of Water of the water treatment plant on November 21, 2008. Present were Julie Roney and Robert Back (Compliance and Technical Assistance Branch), Chris Yeary (Watershed Management Branch), Ben Hale (Department for Environmental Protection Commissioner's Office) and Nora Bauer (Salyersville Municipal Water). Attached is a copy of that inspection. It should be noted that not all components of the inspection were completed due to unavailable Salyersville staff or lack of relevance to this inspection.

Salyersville will be receiving the following Safe Drinking Water Act (SDWA) violations:

October 2008:

1. Treatment Technique for exceeding 1 NTU
2. Treatment Technique for exceeding 0.3 NTU in 97% of readings

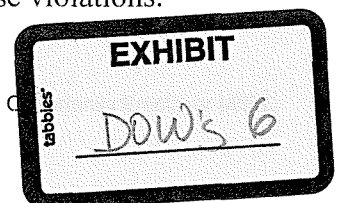
November 2008:

1. Treatment Technique for exceeding 1 NTU
2. Treatment Technique for exceeding 0.3 NTU in 97% of readings
3. No chlorine detected in distribution system in more than 5% of the readings in 2 consecutive months (resulting in a 12-day Boil Water Advisory in November)

4th Quarter 2008:

1. Potential THM and/or HAA MCL violations

Salyersville will be responsible for providing timely Public Notification for these violations.



21. C-Ts were not being calculated daily—these are needed should there be a request to change disinfection practices.
22. The on-line chlorine analyzer has not been operational for over 2 years; however, as Salyersville has a population of less than 3300, grab monitoring can be substituted for the use of an on-line instrument (this is being done).
23. The drought and need to conserve water has made it difficult to flush the distribution system to remove the discolored water from the mains and tanks. As flow increases and water quality improves in the Licking River, the certified distribution operator will begin flushing the system.

The Division of Water makes the following recommendations:

1. Operators and management need basic water treatment, operations, maintenance, regulatory and management training—there is a knowledge deficit of overall water system operation and the application of those concepts to process control and system management.
2. Schedule the uncertified operator for the Class IIIA test as soon as eligible.
3. Evaluate additional plant and distribution staffing needs.
4. Review and revise (if necessary) the water shortage response plan to reduce the potential for future drought-related impacts on the county.
5. Develop a plan for purchasing water from Paintsville in order to exercise the valves and piping associated with that connection.
6. SOPs (especially for filter washing) and the O&M manual need to be developed.
7. Begin calculating daily C-T values.
8. Chemical feed pumps and feeders should be calibrated.
9. Restore the ability of the malfunctioning filter wash valves to be operated automatically from the SCADA system.
10. Evaluate the ability to measure manganese and then purchase those reagents.
11. Investigate the infrastructure needed to blend the Licking River and the Gardner wells before the water enters the treatment plant.
12. Move the fluoride feed point to the clearwell.
13. Reroute the roof drains away from the sedimentation basins.
14. Evaluate the current chlorine feed system for the potential to upgrade to feeding from 2 cylinders to 2 separate feed points.
15. Contract with a company capable of improving the existing SCADA system.
16. Visually inspect the interior of the clearwell for any plating out of manganese on the interior walls.
17. Proceed with the Hach Company maintenance on all related instrumentation.
18. Discuss Salyersville's involvement in a Comprehensive Performance Evaluation or Performance Based-Training with the Division of Water.



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Governor

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Sincerely,

A handwritten signature in black ink that reads "Julie W. Roney".

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure

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Division of Water, Department for Environmental Protection
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601

Issued By:

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

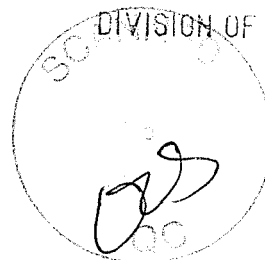
Date: December 9, 2008

How Delivered: Certified/Registered #7007 0710 0004 2993 3905

January 12, 2009

2009 JAN 13 PM 2:50

Ms. Julie Roney
Drinking Water Coordinator
Division of Water – Compliance Branch
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601

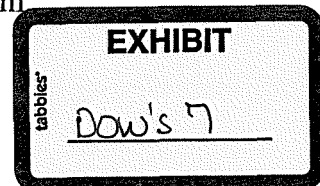


RE: Response to Water System
Inspection Letter

Ms. Roney:

This correspondence is prepared in response to your letter of 12/11/08 which identified eighteen (18) action items for our treatment plant. The following responses correspond to the action items in the 12/11/08 letter:

1. **Basic Training.** A follow up meeting with DOW was held on Tuesday, December 30, 2008. Salyersville will pursue addition training for operators and management.
2. **Uncertified Operator.** The uncertified Operator will be eligible to test in March 2009.
3. **Additional Staffing.** Superintendent Howard plans to utilize correctional workers for to supplement the distribution system staff and has discussed the need to hire additional operators with the Water Commission.
4. **Water Shortage Plan.** The Water Shortage Response Plan was prepared in 1996. It is out of date and needs revision. We expect that the current case involving the PSC/Magoffin Water/Salyersville Utilities will be resolved with a new plan to address water shortages. We suggest that this issue be tabled pending resolution of the PSC proceeding.
5. **Paintsville Water Purchase Plan.** The City has a 4" connection on Route 40 that can provide 10 to 15 percent of daily needs in an emergency. There is an existing contract with Paintsville Utilities. However, the terms are not favorable to the City. Operation of the emergency connection for more than a few days would put the system in financial jeopardy.
6. **O&M Manual.** The Lead Operator (Nora Bauer) has located the existing plant O & M manual and started the process of updating the manual and preparing SOP's.
7. **CT Values.** Starting January 1, 2009, daily CT values will be available upon request.
8. **Chemical Feed System.** We have contacted a vendor with regard to the chemical feed systems. We are securing a quote for the calibration of the chemical feed systems.
9. **Filter Wash Valves.** We have contacted a vendor with regard to the filter wash valves. We are securing a quote for the repair/reconditioning of the automatic actuators to allow the operator to actuate these valves from the control room

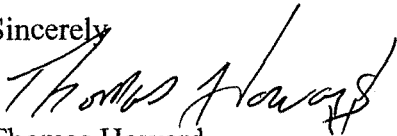


10. **Manganese.** The lead operator has ordered the reagents needed to measure manganese levels in the water.
11. **Blending of River Water & Well Water.** Our engineer has developed a conceptual plan and budget for a system to blend our raw water supplies. An application for 'unobligated bond pool funds' was forwarded to the Department of Local Government on 12/31/08 (with copy to DOW). It is currently our understanding that DLG does not intend to fund the request. We are open to suggestion as to how this endeavor may be funded.
12. **Relocate Fluoride Feed Point.** The only way to re-route the fluoride to the clear well from the rapid mix is to go to liquid fluoride.
13. **Roof Drains.** The roof drains have been routed away from the sedimentation basins.
14. **Chlorine Feed.** The requested changes can be easily accomplished with small diameter SCH 80 PVC plumbing. We are evaluating the most effective way to manifold the system to allow a common supply to be directed to different feed points.
15. **SCADA.** We are in communication with two companies regarding improvements to the existing SCADA system. Our engineer included this upgrade in an application for 'unobligated bond pool funds'. As noted in Item 11 – this request was denied.
16. **Visually Inspect the Clear Well.** We examined the clear well and found it in good condition.
17. **Hach.** The Hach technician, Rick Pohlman, was in the plant on December 16, 2009 and did maintenance on all instruments in our labs.
18. **Comprehensive Performance Evaluation.** We have entered into preliminary conversations with DOW regarding setting up training at our plant.

In closing, we would note that we can not address all eighteen items at once. However, we are confident that given the time to secure additional financing, hire additional personnel, and implement the aforementioned corrective actions, we can make excellent progress.

I may be reached at 606-349-3743.

Sincerely



Thomas Howard
Superintendent Salyersville Water Works

Cc: file



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Water
200 Fair Oaks Lane
4th Floor
Frankfort, Kentucky 40601
Phone: (502) 564-3410
Fax: (502) 564-2741
www.water.ky.gov
January 14, 2009

Leonard K. Peters
Secretary

R. Bruce Scott
Commissioner

CERTIFIED MAIL: 7007 0710 0004 2993 3608
RETURN RECEIPT REQUESTED

NORA BAUER
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

Re: **COMPLIANCE DETERMINATION**
AI ID: 2889
PWSID: KY0770566
PWS NAME: SALYERSVILLE MUNICIPAL WATER
COUNTY: MAGOFFIN

Dear Mrs. Bauer:

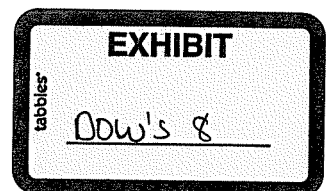
The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Compliance Determination for violations discovered at your facility. Please review this Compliance Determination carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Amber Vaughn at (502)564-3410 ext. 4983.

Sincerely,

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure



**COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water**

COMPLIANCE DETERMINATION

To:

SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

PWSID: KY0770566

PWS Name: SALYERSVILLE MUNICIPAL WATER **AI ID:** 2889

County: MAGOFFIN

Violation Number: 2009 - 9951312

Determination Date: 01/09/2009

Compliance Period: 11/01/2008 - 11/30/2008

Violation Type: MR MINIMUM STATE DS RESIDUAL **Tier Level:** 2

Contaminant: 0999 CHLORINE

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1(1)]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8:160, Sec 3(Large Systems with population of 10,000 or greater) or 401 KAR 8:162, Sec 3 (Small Systems with population of less than 10,000) CHLORINE The public water system failed to submit adequate sampling results to meet Chlorine summary requirements for the compliance period.

Comments: System had 10 out of 90 SDRD samples below required limit, resulting in 11% unacceptable.

The remedial measure(s) and date(s) to be completed by are as follows:

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Compliance Determination.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Compliance Determination.

Submit proof of public notification and its certification within ten (10) days of executing public notification

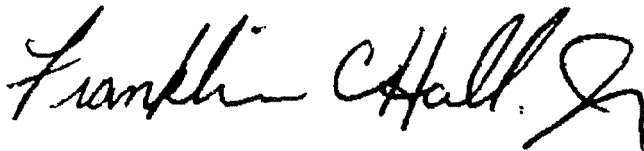
Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Amber Vaughn at (502)564-3410 ext 4983.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601



Issued By:

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: January 14, 2009

How Delivered: Certified/Registered # 7007 0710 0004 2993 3608



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Water
200 Fair Oaks Lane
4th Floor
Frankfort, Kentucky 40601
Phone: (502) 564-3410
Fax: (502) 564-2741
www.water.ky.gov
January 14, 2009

Leonard K. Peters
Secretary

R. Bruce Scott
Commissioner

CERTIFIED MAIL: 7007 0710 0004 2993 3608
RETURN RECEIPT REQUESTED

NORA BAUER
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

Re: **COMPLIANCE DETERMINATION**
AI ID: 2889
PWSID: KY0770566
PWS NAME: SALYERSVILLE MUNICIPAL WATER
COUNTY: MAGOFFIN

Dear Mrs. Bauer:

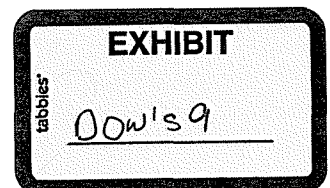
The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Compliance Determination for violations discovered at your facility. Please review this Compliance Determination carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Amber Vaughn at (502)564-3410 ext. 4983.

Sincerely,

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure



**COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water**

COMPLIANCE DETERMINATION

To:

SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

PWSID: KY0770566

PWS Name: SALYERSVILLE MUNICIPAL WATER **AI ID:** 2889

County: MAGOFFIN

Violation Number: 2009 - 9951311

Determination Date: 01/09/2009

Compliance Period: 11/01/2008 - 11/30/2008

Violation Type: 44 MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1) **Tier Level:** 2

Contaminant: 0100 TURBIDITY

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1(1)]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8:160, Section 4 TURBIDITY The public water system failed to meet the treatment technique requirement for turbidity by exceeding 0.3 NTU in over 5% of the combined filter effluent samples collected in the compliance period 11/01/2008 - 11/30/2008.

Comments: System had (48) 1 NTU samples. Also had 135 out of 175 turbidity samples over 0.3, resulting in 77% unacceptable.

The remedial measure(s) and date(s) to be completed by are as follows:

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Compliance Determination.

If not all consumers can be notified by mail or hand delivery then the PWS must give notice to consumers about a violation by 1) publication in a newspaper of general circulation in the area served by the PWS or 2) by continuous posting in conspicuous places within the area served by the PWS. The notice must be executed within thirty (30) days following receipt by the PWS of this Compliance Determination.

Submit proof of public notification and its certification within ten (10) days of executing public notification.

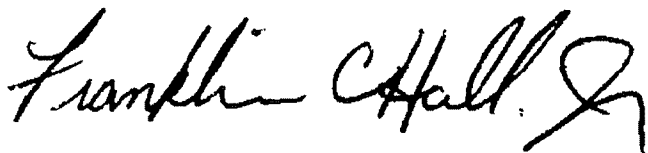
Violations of the above cited statutes and/or regulations are subject to a civil penalty. Violations carry civil penalties of up to \$25,000 per day per violation depending on the statutes/regulations violated. In addition, violations may be concurrently enjoined. Compliance with remedial measures and their deadlines does not provide exemption from liability for violations during the period of remediation, nor prevent additional remedial measures from being required.

Detailed information about your water system's violations & monitoring requirements can be easily accessed on Kentucky Drinking Water Watch at <http://dep.gateway.ky.gov/DWW/>

If you have questions or need further information, write or call Amber Vaughn at (502)564-3410 ext 4983.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601



Issued By:

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: January 14, 2009

How Delivered: Certified/Registered #7007 0710 0004 2993 3608



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Water
200 Fair Oaks Lane
4th Floor
Frankfort, Kentucky 40601
Phone: (502) 564-3410
Fax: (502) 564-2741
www.water.ky.gov
February 5, 2009

Leonard K. Peters
Secretary

R. Bruce Scott
Commissioner

CERTIFIED MAIL: 7007 0710 0004 2995 0070
RETURN RECEIPT REQUESTED

NORA BAUER
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

Re: **COMPLIANCE DETERMINATION**
AI ID: 2889
PWSID: KY0770566
PWS NAME: SALYERSVILLE MUNICIPAL WATER
COUNTY: MAGOFFIN

Dear Mrs. Bauer:

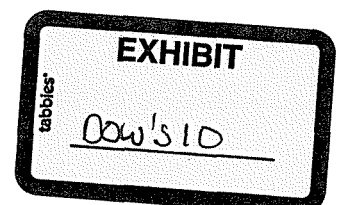
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Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Amber Vaughn at (502)564-3410 ext. 4983.

Sincerely,

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure



**COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water**

COMPLIANCE DETERMINATION

To:
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

PWSID: KY0770566
PWS Name: SALYERSVILLE MUNICIPAL WATER **AI ID:** 2889
County: MAGOFFIN
Violation Number: 2009 - 9951315
Determination Date: 02/05/2009
Compliance Period: 12/01/2008 - 12/31/2008
Violation Type: 44 MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1) **Tier Level:** 2
PWS Facility:
Contaminant: 0100 TURBIDITY

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1(1)]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8:160, Section 4 TURBIDITY The public water system failed to meet the treatment technique requirement for turbidity by exceeding 0.3 NTU in over 5% of the combined filter effluent samples collected in the compliance period 12/01/2008 - 12/31/2008.

Comments: System had (32) 1NTU out of 186. System also had (90) 0.3NTU samples out of 186.

The remedial measure(s) and date(s) to be completed by are as follows:

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

PWS must give notice to consumers, including other water systems you may provide water to, about a violation by mail delivery or hand delivery. The notice must be executed within thirty (30) days following receipt by the PWS of this Compliance Determination.

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If you have questions or need further information, write or call Amber Vaughn at (502)564-3410 ext 4983.

ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601



Issued By:

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: February 5, 2009

How Delivered: Certified/Registered #7007 0710 0004 2995 0070



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Water
200 Fair Oaks Lane, 4th Floor
Frankfort, Kentucky 40601
Phone: (502) 564-3410
Fax: (502) 564-2741
www.water.ky.gov

Leonard K. Peters
Secretary

Valerie Hudson
Acting Commissioner

February 6, 2009

Ms. Sharon Collins
135 Von Collins Road
Salyersville, Kentucky 41465

Dear Ms. Collins:

The Kentucky Division of Water (DOW) has received your concerns over notifications received regarding the quality of the drinking water in Magoffin County. The DOW is aware of the violations and has been assisting Salyersville Municipal Water Works and Magoffin County Water District with improving the quality of the water. In addition, the DOW is working closely with Salyersville to assure that adequate water is available at all times and that the water meets the drinking water standards.

The notices that you received were due to the 2008 drought's impact on the Licking River and the difficulty experienced by Salyersville in treating that water. To help with correcting the violations, the DOW has provided technical assistance to Salyersville and has involved the KY Division of Enforcement through a case referral.

The language in the section of the notice called "What does this mean?" is federal language that is required to be included in the notice. It is based on a lifetime of daily drinking 2 liters of water that contains levels of the contaminant that are above the standard.

If you have any additional questions or concerns, please contact Julie Roney at 502/564-8158, extension 4958.

Sincerely,

Thomas B. Gabbard, Manager
Compliance & Technical Assistance Branch
Division of Water



ENERGY AND ENVIRONMENT CABINET

Steven L. Beshear
Governor

Department for Environmental Protection
Division of Water
200 Fair Oaks Lane
4th Floor
Frankfort, Kentucky 40601
Phone: (502) 564-3410
Fax: (502) 564-2741
www.water.ky.gov

Leonard K. Peters
Secretary

R. Bruce Scott
Commissioner

February 5, 2009

CERTIFIED MAIL: 7007 0710 0004 2993 4490
RETURN RECEIPT REQUESTED

NORA BAUER
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

Re: **COMPLIANCE DETERMINATION**
AI ID: 2889
PWSID: KY0770566
PWS NAME: SALYERSVILLE MUNICIPAL WATER
COUNTY: MAGOFFIN

Dear Mrs. Bauer:

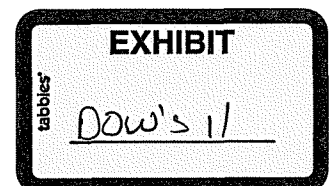
The Kentucky Department for Environmental Protection (DEP) has issued the enclosed Compliance Determination for violations discovered at your facility. Please review this Compliance Determination carefully to ensure that all remedial measures are completed by the specified deadlines.

Failure to comply with all remedial measures could result in enforcement action and the assessment of penalties. Your cooperation and attention to this matter is appreciated. If you have any questions, please contact Kevin Stewart at (502)564-3410 ext. 4985.

Sincerely,

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

C: Drinking Water Program files
Enclosure



**COMMONWEALTH OF KENTUCKY
ENERGY & ENVIRONMENT CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
Division of Water**

COMPLIANCE DETERMINATION

To:
SALYERSVILLE MUNICIPAL WATER
401 COLLEGE ST
SALYERSVILLE, KY 41465

PWSID: KY0770566
PWS Name: SALYERSVILLE MUNICIPAL WATER **AI ID:** 2889
County: MAGOFFIN
Violation Number: 2009 - 9951314
Determination Date: 02/04/2009
Compliance Period: 10/01/2008 - 12/31/2008
Violation Type: 02 MCL, **AVERAGE Tier Level:** 2
PWS Facility: 0770566DS001 DISTRIBUTION - SALYERSVILLE MUNICIPAL WA
Contaminant: 2456 TOTAL HALOACETIC ACIDS (HAA5)

Public Water Systems are subject to the requirements of 401 KAR Chapter 8. [401 KAR 8:020 Section 1(1)]
This is to advise that you are in violation of the provision(s) cited below:

Description of Non Compliance:

401 KAR 8:250, 8:400, 8:420, 8:510 and 8:550: TOTAL HALOACETIC ACIDS (HAA5) The public water system exceeded the MCL (as an average of samples) for the specified contaminant in the compliance period 10/01/2008 - 12/31/2008. The reported result of .094 mg/l exceeded the MCL of 0.060 mg/l.

Comments:

The remedial measure(s) and date(s) to be completed by are as follows:
Begin or continue quarterly monitoring for TOTAL HALOACETIC ACIDS (HAA5)

Perform public notification for the above-mentioned violation in accordance with 401 KAR 8:070. The public notification must not contain language that contradicts or detracts from the standard mandatory language or the purpose of the notice. Submit proof of public notification and its certification within ten (10) days of executing public notification. [401 KAR 8:070] The specific public notification activities to be performed are listed below.

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If you have questions or need further information, write or call Kevin Stewart at (502)564-3410 ext 4985.
ALL DOCUMENTATION MUST BE SUBMITTED TO:

Drinking Water Compliance & Technical Assistance
Division of Water, Department for Environmental Protection
200 Fair Oaks Lane, 4th Floor
Frankfort, KY 40601



Issued By:

Franklin C. Hall, Jr.
Drinking Water CTA Supervisor
Compliance & Technical Assistance Branch
Division of Water

Date: February 5, 2009

How Delivered: Certified/Registered #7007 0710 0004 2993 4490