

Small
Systems
Technical
Assistance
Set-Aside
Report

PY2007

Summary of Funding, Goals and Objectives, and Activities completed by Ohio RCAP and Ohio EPA personnel as a part of the Small Systems Technical Assistance Set-Aside of the Drinking Water State Revolving Fund from July 1, 2006 through June 30, 2007.



Drinking Water State Revolving Fund
September 2007

**Ohio Environmental Protection Agency
Drinking Water State Revolving Funds
Small Systems Technical Assistance Set-Aside
Annual Report - Program Year 2007**

Ohio EPA administered a small systems technical assistance program utilizing two assistance providers during PY 2007. Ohio Rural Community Assistance Program (WSOS/RCAP) was under agreement to provide small system managerial and financial assistance; also a small systems technical assistance position at Ohio EPA Northeast District Office provided help with technical and managerial issues at very small public water systems during a portion of the 2007 program year.

I. Funding

During PY2007 Ohio EPA was using funds available from the FFY 2002 and FFY 2003 Technical Assistance Grant set-asides, (Grant Account Numbers FS985954-02 and FS985954-03.)

An agreement with the technical assistance provider RCAP, was in effect from July 1, 2006 through June 30, 2007 with a grant for \$401,437.00. The small systems technical assistance position at the Northeast District Office also used the same capitalization grant funds to pay personnel costs for this position.

II. Full Time Equivalent (FTEs)

In PY2007, RCAP allocated 3.5 FTEs to fund the activities of seven (7) technical assistance coordinators who supplied technical, managerial, and financial training to Ohio public water systems serving populations of 10,000 or fewer. Ohio EPA Northeast District Office had one FTE dedicated solely for providing technical assistance to small systems with less than 250 population. This position terminated in January 2007, when the NEDO Small Systems Coordinator left the position.

III. Goals and Objectives

The goals and objectives for the Small System Technical Assistance Program for PY2007 were as follows:

- § Assist small systems with the preparation of applications for the DWSRF including determining the ability to repay.
- § Assist in meeting state and other crosscutting requirements of the application.
- § Assist with locating and procuring sources of funding in addition to the DWSRF.
- § Assist with determining the most cost effective option for a Public Water Supply to access safe drinking water.

- § Assist systems with readiness to proceed issues.
- § Assist systems in the development and/or completion of all components of the capability assurance documentation.
- § Assist systems by offering seminars for small systems utility board training, rate setting training, and asset management training.
- § Assisting local systems with priority on public health-based issues using the water use advisory list, Significant Non-Compliers (SNC), and Ground Water Under the Direct Influence (GWUDI) of Surface Water.
- § Assisting systems with long term boil advisories. Any system with an advisory longer than 8 weeks is determined to be in need of technical assistance.
- § Work with public water systems that have multiple Monitoring and Reporting (M\|R) violations in consecutive quarters, using the violation database as a reference.
- § Visit individual water systems, providing both training and direction.
- § Provide assistance with sample siting plans, contingency plans, detail plan process, consumer confidence reports, and corrosion control recommendations.
- § From January 2007 through the end of June 2007, perform additional duties under the U.S. EPA Drinking Water Infrastructure Needs Survey.

IV. Program Accomplishments

Ohio Rural Community Assistance Program

Ohio Rural Community Assistance Program (RCAP) is a grantee providing services under the Technical Services Set-Aside. Their services are provided to public water systems with 10,000 population or fewer. *Attachment A* (Summary of Activities Completed), contains information taken from RCAP quarterly reports; it details what activities occurred and which sites were aided through RCAP for PY 2007. The goals and objectives for the RCAP Grant Agreement for PY 2007 were as follows:

Objective 1: Assist small systems with the preparation of applications for the DWSRF including determining the ability to repay.

During this year, RCAP assisted 31 systems in preparation of applications for loans.

- There was one planning and design loan application prepared for the City of Oberlin
- One construction loan application completed for the City of Chardon.
- Nine pre-applications for the new Project Priority List (PPL) were prepared.
- Six disadvantaged community applications were completed this year.
- Of the 14 loans in progress at year-end, half were WSRLA, with the others funded under other programs. *Attachment A*, indicates the activities undertaken throughout the year for each system assisted.

Objective 2: Assist in meeting state and other crosscutting requirements of the application.

Three systems were assisted in meeting state and other cross-cutting requirements. These systems all requested to have an income survey completed as part of the loan application.

Objective 3: Assist with locating and procuring sources of funding in addition to the DWSRF.

Ohio RCAP coordinates financing packages for systems using Ohio Department of Development CDBG program, Ohio Water Development Authority, Ohio's Issue 2 Program, and the Rural Development grant/loan program for water infrastructure development. There were thirteen systems assisted in procuring some or all funding from sources other than the WSRLA.

Objective 4: Assist with determination of the most cost effective option for a Public Water Supply to access safe drinking water.

There were seven systems aided by RCAP in selecting the most cost effective and affordable option to obtain safe drinking water.

Objective 5: Assist systems with readiness to proceed issues.

In PY 2007, there were twelve water systems requesting assistance in making readiness to proceed decisions. In a sense, nearly all of the systems working with RCAP required decisions about some aspect of readiness to proceed issues.

Objective 6: Assist systems in the development and/or completion of all components of the capability assurance documentation (CAP).

- Throughout PY 2007, four Capability Assurance Plans were completed.
- Six CAPs were in progress as the year ended.
- Two systems required rate studies and recommendations for increases.
- Twelve systems total were assisted in this category.

Objective 7: Assist systems by sponsoring training seminars for: small systems utility board training, rate setting training, and asset management training.

Ohio RCAP increased their emphasis on providing training courses to water boards and system operators. To this end, Ohio RCAP held 16 training sessions throughout the state to provide water board training. This training was aimed at providing water boards a better appreciation of planning for operational expenses, emergency measures, replacement of equipment, laws, and regulations, funding sources, rate setting, and other aspects of operating a successful water supply.

Each course was a one-day training session with resource materials in a take-home binder, plus a CD of functional programs with examples for accounting use. There were five courses of "Utility Management for Local Officials," held throughout the State.

There were five courses of "Financial Management" held at various locations throughout the State. These courses are aimed at providing training on establishing and operating a water system under good financial policies and adequate record keeping.

Providing for the future needs of a water system through implementation and constant monitoring of an established financial plan, naturally leads to the third course implemented in PY 2007, "Rate Setting and Asset Management." Six courses were held on this subject.

Two additional training seminars were held; "Setting Water and Sewer Rates" at the Ohio Auditor's Conference; and presentation of a paper at the AWWA Annual Conference describing the small systems training program underway in Ohio.

A report of activities for PY 2007 is included in *Attachment A*. Additional information about RCAP training and success stories is included in *Attachment C*.

Small Systems Technical Assistance Position at Northeast District Office

At Northeast District Office, Ohio EPA utilized one FTE to provide technical assistance to small systems serving a population less than 250.

During PY 2007, activities undertaken by this field operative included:

§ **Assisting local systems with priority on public health-based issues using the water use advisory list, Significant Non-Compliers (SNC), and Ground Water Under the Direct Influence (GWUDI) of Surface Water.**

The NEDO field representative provided assistance to 246 water systems. There were 786 phone contacts with systems, the general public and professional organizations. Provided assistance with 3 complaint investigations and 16 maximum contaminant level (MCL) assistance visits and 23 other visits/inspections.

§ **Assisting systems with long term boil advisories. Any system with an advisory longer than 8 weeks is determined to be in need of technical assistance.**

Assisted systems with water advisories. Seven boil advisories were resolved and removed from the list.

§ **Provide training and direction to public water systems.**

During this time frame, the SSTAP representative presented one training session, which was attended by 30 persons. This was at the 2006 Northeast District OEHA Fall Educational Conference on October 11, 2006. Publication materials were handed out at this session.

§ **Provide assistance with sample siting plans, contingency plans, detail plan process, consumer confidence reports, and corrosion control recommendations.**

The NEDO SSTAP Representative reviewed two public water system evaluation forms. In addition, some of the professional calls (total 140), were to provide assistance for the above stated goal.

There were 50 Monthly Operating Reports reviewed during this time.

A total of seven sanitary surveys were performed in PY 2007.

A summary of activities for the Small Systems Technical Assistance Program in Northeast District Office is included as *Attachment B*. Additional detailed information for this position is available upon request.

Attachment A

**SUMMARY OF ACTIVITIES COMPLETED
BY GREAT LAKES RCAP/WSOS CAC, INC. UNDER
DWSRF TECHNICAL ASSISTANCE GRANT
FINAL: 7/01/2005-6/30/06**

This report is written to reflect the work completed against the grant objectives. RCAP had a total of 35 entities enrolled during the year. A brief listing of communities served follows each objective.

Objective 1: Assist small systems with the preparation of application for the DWSRF, including determining the ability to repay. (31 communities assisted)

Planning and Design Application Completed (1): Oberlin

Construction Loans Completed (1) Chardon

Preapplications Completed for new Priority List (9): Aberdeen, Beaver Creek Water Assoc., Buckeye Lake, McCartyville, Navarre, Quincy, Rush Run, Russels Point, Spruce Tree Village

Hardship Applications Completed (6): Buckeye Lake, McCartyville, Quincy, Rush Run, Russels Point, and Salineville

Loans (potential) in Progress (14):

*Indicates the RCAP is still working with these entities; however, services are being provided under a different funding program

Aberdeen	Beaver Creek Water Assoc.	*Berkey
Buckeye Water District	Cumberland	*Hoytville
Oberlin	Perry Township	*Rocky Ridge
*Russia	*Spencerville	Spruce Tree
*West Malta Rural WD	*West Salem	

Objective 2: Assist in meeting State and other crosscutting requirements of the application.

(3 communities assisted)

- Jefferson County – working on CDBG Income Survey
- Portersville East Branch – started income survey
- Rush Run – conducted income survey

Objective 3: Assist with locating and procuring sources of funding in addition to the DWSRF.

(13 communities assisted)

- Aberdeen – prepared and submitted ARC project proposal to Brown County
- Bishopville – completed earmark request through Senator Voinovich’s office
- Buckeye Water District – attended SCEIG meeting to discuss potential funding with funders
- Danville – working on closeout of CDBG
- Fayetteville – completed OWDA application
- Fredericksburg – closed out CDBG
- McCartyville – prepared CDBG Formula application
- Perry Twp. – requested appropriations request from Senator Voinovich’s office and Congresswoman Schmidt’s office, prepared ARC pre-application
- Racine – coordinated drawdown of funds for payment to contractors, completed close out documents for state and tribal assistance grant
- Ripley – prepared OWDA supplemental and construction applications
- Rush Run - discussed CDBG requirements and preparation of brochures re: funding sources for tap fees and hookups, prepared CDBG and Governor’s Office of Appalachia applications
- Rutland – held 2 public meetings for CDBG application
- Salineville – prepared and submitted STAG applications to Senator Voinovich and Congressman Wilson, requested change of scope for OPWC grant

Objective 4: Assist with determining what is the most affordable option for a community to access safe drinking water. (7 communities assisted)

- Buckeye Water District – working on water sale agreement
- Caldwell – evaluated alternatives
- Deavertown – designed financing plan
- Fayetteville – assisted with identification of project alternatives
- Lancaster Campground – prepared funding plan (project alternative analysis)
- Saint Paris – developed funding scenarios; the village decided to obtain private financing
- Salineville – prepared funding scenarios, designed financing plan

Objective 5: Assist systems with readiness-to-proceed issues for funding, including hiring an engineer, developing a project schedule, obtaining cost estimates, completing data collection for project, defining the

need and obtaining supporting documentation, description of the proposed project, project alternatives considered and why rejected.
(12 communities assisted)

- Aberdeen – prepared future water rate sheet and sent to OEPA
- Bainbridge – prepared costs, financing, and budget sheet for management of project financing during construction
- Beaver Creek Water Association – revised and e-mailed brochure that inform residents about backflow prevention
- Bishopville – developed three rate structure options
- Cumberland – analyzed water sale offers from Byesville and Guernsey County, started rate analysis
- Fayetteville – assisted with procurement of engineer
- McCartyville – reviewed engineering scope of services and made recommendations to change scope
- Portersville East Branch – held two public meeting and developed a database of property owners (letters were sent to owners regarding comments at public meeting), sent letters to property owners re: current status of project and need to submit tap fees to fund design and permits
- Quincy – reviewed current rate structure, PER , and amendment
- Racine – working on rate review and asset management plan
- Salineville – working on mediating and facilitating negotiation between the district and the village toward the village purchasing bulk water for the district
- Scio – conducted rate study

Objective 6: Capacity development technical assistance will focus on the management of the system. This will include issues relating to: utility planning, identifying both direct and indirect O&M costs, developing budgets, cost recovery, types of financing resources, financial plan development, and marketing utility products and services to consumers. Management assistance will be provided and focus on the responsibility of the governing board. In addition, RCAP will work with the Ohio EPA to facilitate the public involvement process in the state's capacity development strategies.

(12 communities assisted)

- Buckeye Lake – facilitated meeting regarding delinquencies with OWDA and consultant
- Fayetteville – conducted rate study (rates increased)
- Racine – prepared and presented summary rate analysis to increase rate by \$5 for the interim to transition to a rate needed to support loan, operation, maintenance, and replacement costs

CAPs completed (4):

- Oberlin
- Middlefield
- Buckeye Lake
- Chardon

CAPs in progress (6):

- Aberdeen
- Beaver Creek Water Assoc.
- Navarre
- Quincy
- Spruce Tree
- *West Malta

Objective 7: Provide Utility Board Member Trainings (16 trainings held to date plus 2 additional)

Date	Location	Course	# of Participants	# of Systems
9/26/06	Zanesville	Utility Management for Local Officials	32	20
10/4/06	Findlay	Utility Management for Local Officials	21	15
10/10/06	Massilon	Utility Management for Local Officials	27	22
1/9/07	Reynoldsburg	Utility Management for Local Officials	27	12
3/27/07	Troy	Utility Management for Local Officials	16	11
		Total Utility Mgmt. -5	123	80
11/8/06	Zanesville	Financial Management	26	15
12/5/06	Massilon	Financial Management	17	12
1/10/07	Reynoldsburg	Financial Management	16	9
2/7/07	Findlay	Financial Management	23	12
3/28/07	Washington CH	Financial Management	19	8
		Total Financial Mgmt.-5	101	56
3/29/07	Reynoldsburg	Asset Mgmt., Budgeting and Rate Setting	105	67
4/24/07	Lima	Asset Mgmt., Budgeting and Rate Setting	48	24
4/26/07	Sardinia	Asset Mgmt., Budgeting and Rate Setting	33	17

Date	Location	Course	# of Participants	# of Systems
5/1/07	Marietta	Asset Mgmt., Budgeting and Rate Setting	50	29
5/17/07	Columbiana	Asset Mgmt., Budgeting and Rate Setting	45	25
5/24/07	Ashland	Asset Mgmt., Budgeting and Rate Setting	59	34
		Total Asset Management - 6	340	196
Total	16 trainings		564	332
Other trainings held				
4/4/07	Columbus	Setting Water and Sewer Rates – Ohio Auditor’s Conference	83	
6/28/07	Toronto, Canada	AWWA Annual Conference and Exhibition; presented a paper on how Ohio RCAP is working with small communities to provide technical assistance and sustainability showcasing “Board Training”	30	15
Total	2		113	15

RCAP is working with USEPA on the finalization of CUPS which is an asset management software package. Therefore, the development of the 401 course for applied asset management is on hold until the software is fully operational.

RCAP is also working in partnership with Ohio EPA, OTCO, and Rural Water in the development of a training center located at WSOS’ “CCC Camp” in Green Springs. Plans are currently underway for an event in October.

Objective 8: Assist systems with 10,000 or less in preparation of responses to USEPA Drinking Water Infrastructure Needs Survey. Types of assistance to be provided includes meeting with public water systems, assisting in completion of asset inventories for water system components and assisting systems in completing surveys on USEPA's survey form with necessary documentation. RCAP will follow up with systems post survey for further technical assistance. (18 communities assisted)

Greenfield City, Millersport Village, Campbell City, Canfield City, Columbiana City, Geneva City, Trumbull County, Wellington Village, Bryan Municipal Light & Water, Erie Co. Margareta District, Port Clinton City, Byesville, Leading Creek Conservancy District, New Lexington City, Tiltonsville Village, Toronto City, Bellbrook Waterworks, Hillsboro City.

Leveraged Funds 2006-2007 year to date: \$15,556,050

Botkins	\$ 491,330 (WSRLA)
Eaton	\$5,135,390 (WSRLA)
Oberlin	\$ 454,783 (WSRLA)
Chardon	\$6,500,267 (WSRLA)
Lisbon	\$2,210,080 (WSRLA)
Ripley	\$ 564,200 (OWDA)
	\$ 200,000 (OWDA)

Attachment B

NEDO Small Systems Technical Assistance Activities
July 1, 2006 to June 30, 2007

Activity:	July	August	Sept.	Oct.	Nov.	Dec.	January	February	March	April	May	June	Totals
Water Use Advisories:													
Advisories >8 weeks for previous month	5	3	3	6	7	4	4	0	0	0	0	0	0
Newly added >8 week advisory list	0	1	3	2	0	0	0	0	0	0	0	0	6
Resolved >8 weeks	2	1	0	1	3	0	0	0	0	0	0	0	7
Number remaining for the month >8 weeks	3	3	6	7	4	4	4	0	0	0	0	0	0
Sanitary Surveys	0	2	0	1	4	0	0	0	0	0	0	0	7
Site Visits:													
New well sites reviewed	0	0	0	0	0	0	0	0	0	0	0	0	0
Complaint investigations	5	6	0	0	0	0	0	0	0	0	0	0	11
MCL Technical Assistance	0	0	5	4	0	0	0	0	0	0	0	0	9
Initial/Follow-up Site visit/inspections	3	6	6	0	4	1	0	0	0	0	0	0	20
Emergencies	0	0	0	0	0	0	0	0	0	0	0	0	0
CPE Type activities	0	0	0	0	0	0	0	0	0	0	0	0	0
PWS Geo-located	0	0	0	0	0	0	0	0	0	0	0	0	0
Phone Calls (Professional)	30	25	20	34	31	0	0	0	0	0	0	0	140
Phone calls (General Public)	42	48	38	37	30	0	0	0	0	0	0	0	195
Outreach:													
Presentations	0	0	0	1	0	0	0	0	0	0	0	0	1
Publications Distributed	0	0	0	1	0	0	0	0	0	0	0	0	1
SRF Related Meetings	0	0	0	0	0	0	0	0	0	0	0	0	0
PWS Evaluation Form Reviews	0	0	0	0	0	0	0	0	0	0	0	0	0

RCAP Success Stories

With funding from Ohio EPA and other sources, RCAP has designed and implemented a series of training courses aimed at Officials responsible for the operation and funding of water systems. Descriptions of these courses are as follows:

RCAP 101 - Utility Management for Local Officials

Participants will be able to manage a water or sewer utility and develop their technical, managerial, and financial capability. Participants will be able to identify their responsibilities regarding operations, rules, open meeting laws and other laws impacting small water and wastewater systems, staffing, hiring consultants, project financing with loans, grants, rate setting, records keeping, income and expenses, budgeting, planning, and all aspects of utility operation. Participants will be able to develop capability for maintaining or achieving compliance with laws and regulations to provide a quality safe product at reasonable rates.

RCAP 201 - Financial Management for Local Officials

Building on the information provided by the RCAP 101 course, participants will be able to evaluate financial policies and procedures; develop record systems to make sound decisions on budgets, rates, and capital purchases; manage assets, income, expenses, debt, and reserves. Participants will be able to develop short and long-range plans for providing safe and quality services at a reasonable cost. Participants will be introduced to asset management as a mechanism of good stewardship of their utility. Participants will be able to implement sound financial processes, plans, and strategies for their utility. As a prerequisite, the Utility Management for Local Officials is recommended but not required.

RCAP 301 - Asset Management for Local Officials

Participants will be able to evaluate financial needs of operating a water or sewer utility and set rates for services that cover the cost of operations, maintenance, repair, and replacement of the infrastructure assets. Participants will consider actual cost and changes in local conditions as a basis for budgeting expenses, debt service, and requires reserves. Additionally the participants will consider the capital needs of their infrastructure and the availability of loans and grants to cover capital costs along with the development of a rate structure that fits the needs of the community. Participants will determine short and long-term strategies for financing the needs of the utility and be able to deal with customer expectations and concerns. As a prerequisite, the RCAP 101 and RCAP 201 courses are recommended but not required.

RCAP 401 - Rate Setting for Local Officials

This course continues the topics of the Asset Management for Local Officials seminar and will involve the implementation of tools, including software and computer programs, to develop asset management plans and rate schedules for individual participants to meet the needs of their individual systems. Each participant will have access to a computer and will implement skills learned throughout the seminar. Participants will have the knowledge, tools, and software to set their own rates and explain these rates

to their customers. As a prerequisite, the RCAP 101, RCAP 201, and RCAP 301 courses are recommended but not required. Additionally RCAP will provide each participant with free software that can be used for setting rates and managing the assets of the utility.

Highlights of PY 2007 Activities:

Buckeye Water District

Basis for Project:

In the early 1990s the Ohio Environmental Protection Agency ordered Buckeye Water District (formerly known as Southern Columbiana Regional Water District) to make changes in their method of water treatment. The district also was faced with a lack of capacity to serve existing customers in Columbiana County. Compounding the lack of capacity problem was the need to expand public water service to areas of Columbiana County with no public water system. Due to financial concerns, no immediate work occurred on the project. Buckeye Water District hired Arcadis as the consulting engineer on the project. Planning and design work began on the project in 2000. The project went to construction in the fall of 2006.

Project Area:

Buckeye Water District is located northeastern Ohio along the Ohio River. The district serves customers in Columbiana County, Ohio. Demographic data from the 2000 U.S. Census for Columbiana County:

1. Median Household Income is \$34,226
2. Low-to-Moderate Income percentage 43.5%
3. Minority population 3.6%

The project will serve approximately 3,750 customers in the villages of Wellsville and Salineville, and St. Clair, Madison, and Liverpool Townships. Deb Martin-Ohio RCAP began working with Buckeye Water District prior to 2000. Bob Allen-Ohio RCAP continued to work with the district to develop a funding package for the construction of the project to serve a significant portion of the households located outside municipal boundaries in Columbiana County, as well as serving the municipalities of Wellsville and Salineville. Ohio RCAP facilitated public meetings, attended by Ohio Environmental Agency, U.S.D.A.-Rural Development, Columbiana County officials, and public to discuss steps the district had undertaken to identify the most financially feasible water source, water treatment method, transmission line location, and distribution line location. Ohio RCAP also worked with the district to provide project information to then U.S. Congressman Ted Strickland. This resulted in the district securing a State and Tribal Assistance Grant for \$175,000. The total project cost is now at \$35,625,750.

Project Funding Sources:

Ohio Environmental Protection Agency	Low Interest Loan	\$11,700,000
USDA-Rural Development	Grant	\$8,000,000
USDA-Rural Development	Loan	\$13,800,000
STAG	Grant	\$175,000
Buckeye Water District	Local Contribution	\$1,950,750

Project Description:

The project involved the development of a new raw water intake structure, construction of a new treatment plant, and approximately 5.4 miles of transmission waterline, 1 tank, and 2 booster pump stations to serve 2,733 new customers in the central part of Columbiana County. Improvements to the existing distribution system were included in the project as well.

Raw water will be drawn from the Ohio River in Wellsville. The submersed raw water intake will include static inlet screens and a potassium permanganate feed point. The raw water pumping station will include a concrete wet well supporting vertical turbine pumps rated for a firm pumping capacity of 30 MGD. Raw water will be pumped through a 36-inch force main approximately 4.4 miles to the proposed water treatment plant site on S.R. 45. The pumping station and force main capacity were selected in consideration of future water needs and to allow initial pumping to be limited to nighttime hours at a lower electrical rate. A standby diesel generator will serve the raw water pumping station.

The 4 MGD water treatment facility should serve the needs of the Buckeye Water District for a 20-year period. The Water Treatment Plant process treatment units are designed for both parallel and series operation and will hydraulically accommodate a maximum flow rate 50% greater than the initial 4 MGD process rating. In the future the 4 MGD process rating may be increased to 6 MGD (or greater) by installing tube settlers in the sedimentation basins; constructing two additional rapid sand filters; and, installing an additional high service pump. Minor piping modifications may also be necessary.

A total of 14 MG of raw water storage is provided at the proposed water treatment plant site near Osbourne Road on S.R. 45. The raw water force main discharges into the first reservoir referred to as the "Settling Reservoir." A Settling Reservoir will hold approximately 5 MG and provide a retention time of approximately 4-hours at the maximum pumping rate of 30 MGD. The reservoir will have a concrete bottom sloped toward the outlet with a solids collection trough and outlet drain valve chamber. The shallow end of the reservoir will include a ramp for cleaning equipment access.

Periodic cleaning of the Settling Reservoir will be done by draining stored water into the Storage Reservoir and removing settled solids by high-pressure washing or mechanical equipment. The Storage Reservoir will be at a lower elevation that allows the Settling Reservoir to be completely drained.

The remainder of the 14 MG of storage is provided by one storage reservoir. The reservoir is an earthen basin with compact clay liner meeting permeability requirements and hard-armor slope protection. The reservoirs' side slopes and other features comply with ODNR and other applicable design standards. The reservoir outlets to a valve and junction chamber where a single raw water header conveys water to the Treatment Building.

Project Impact:

In August 2007, the project was nearing 50% completion. Benefits upon completion of the project will be high quality potable water to existing customers of Buckeye Water District. In addition, the district will be able to serve new customers as plant capacity will be increased upon completion of the project.

The project permits other smaller municipal public water systems in Columbiana County that are struggling to comply with water quality requirements to purchase water from Buckeye Water District and or utilize Buckeye Water District staff to operate the local municipal water system.