COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION In the Matter of: ELECTRONIC APPLICATION OF) MARTIN COUNTY WATER DISTRICT) FOR ALTERNATIVE RATE ADJUSTMENT) CASE NO. 2021-00154

NOTICE OF FILING EXHIBIT TO BE UTILIZED BY MARTIN COUNTY WATER DISTRICT AT HEARING ON MAY 27, 2021

Comes the Martin County Water District, by counsel, and hereby gives Notice of Filing of the attached Exhibit #1, Alliance Water Resources, Inc. Operations Update Power Point to be utilized at the Public Service Commission hearing on May 27, 2021.

BRIAN CUMBO

COUNSEL FOR MARTIN COUNTY

WATER DISTRICT P.O. BOX 1844

INEZ, KY 41224 TELEPHONE: (606) 298-0428

TELECOPIER: (606) 298-0316 EMAIL: cumbolaw@cumbolaw.com

CERTIFICATE OF SERVICE

This will certify that a true and correct copy of the foregoing was emailed on this the 25 day of May, 2021, to the following:

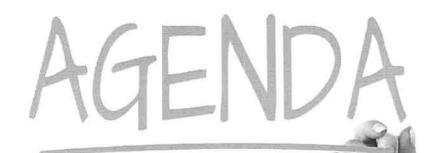
Public Service Commission P.O. Box 615 Frankfort, KY 40602 <u>Ariel Miller@ky.gov</u> <u>Brittany.Koenig@ky.gov</u> <u>Jesse.Fries@ky.gov</u> Hon. Mary Varson Cromer Appalachian Citizens' Law Center, Inc. 317 Main Street Whitesburg, KY 41858 mary@appalachianlawcenter.org

BRIÁN CUMBO



Martin County Water District

May 27, 2021



- ► Key Accomplishments to Date
- ▶ Disaster Response
- ▶ Water Loss
- ► Immediate Needs
- ▶ Discussion/Questions

Key Accomplishments to Date



- Meter Audits
- ► Audits from 2016 2020 complete
- Created 90-day goals
- New billing software purchased and Implemented
- QGIS and GEOSYNC CLOUD Implementation.
- ► 1300 meters GIS Mapped
- Leak Mapping on GIS

Key Accomplishments to Date





- Master Meter Zones Identified
- Critical Operational Equipment for Regulatory Compliance and Leak Detection
- Developed Meter Reading and Billing SOP
- Developed Customer Service SQP
- Repaired Crum Reservoir monument
- ► Installed 2nd pump at Turkey Booster Station
- Purchased New Trench Box for Safe Excavation









Key Accomplishments to Date

- Replaced Ceiling Tile and Lighting in Plant Lab
- ► Installed New Booster Station Building at Cassell Branch
- Purchased New Booster Station Building for Big Lick Booster Station
- ➤ 3 Trucks brought from Alliance Water Resources and Provided for District Use
- Repaired the District Excavator and Purchased New Tracks
- Repaired District Dump Truck for Use During Leak Repairs

5

Key Accomplishments to Date

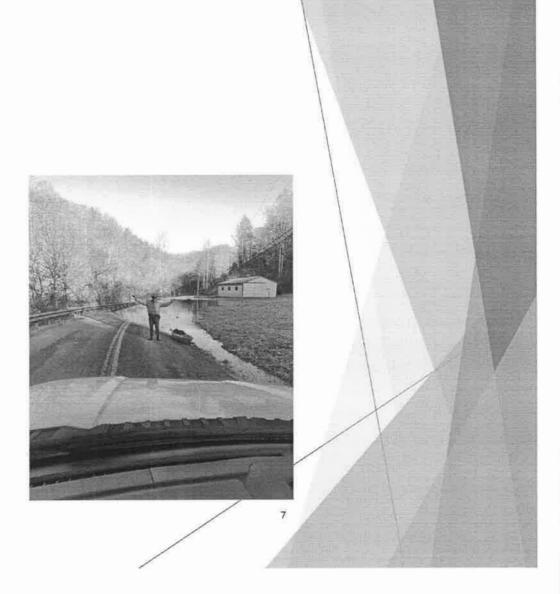




- ► Fixing Hydraulic and System Issues the Right Way
- 5 Newly Acquired Licenses in the District
- Developed and implemented a Theft of Water SOP
- ► Installed a new valve on ST RT 2032 to isolate a problem area in Wolfcreek area
- ► Inventory Control Program
- Graveled Access Road for Clearwells

Disaster Response

- ► February Ice Storm Power Lost to Inez Water Treatment Plant, 40 East Booster Station, and 40 West Booster Station.
 - Power Back at Treatment Plant -Pumping water
 - ► 40 East Booster Station Receiving Single Phased Power - Caused the VFD to fail
 - ▶ 40 West Booster Station Power Out
- Received Generator with Assistance From KRWA for the 40 West Booster Station
- ► VFD Moved from 40 West to 40 East to get Pump Station Running



DISASTER RESPONSE









- Sunday February 28th Flood
 - ► 40 East Booster Station Power Out
 - Multiple Slips
 Throughout the
 System Causing Water
 Line Failures
 - ► Turkey Hill 6 Different Breaks in Main Line from Slip
 - ➤ 292 Multiple Slips Causing Water Line Failures
 - ► Poplar Fork Slip
 - ► Power Outages caused VFD Failure on 40 East Booster

DISASTER RESPONSE







- Alliance Division's in Cape Girardeau, and Lincoln County Responded with Staff and Equipment for Assistance
- Poplar Fork Repaired with a Temporary Line Installation. Self Restraining Yellowmine was installed by Alliance Staff
- ► Turkey Creek Repaired Leaks in 6 different locations. A broken valve in the closed position was found with a 2" bypass.
- ► Emergency Connection with Mountain Water District was opened to provide water for customers on the southern side of 292.

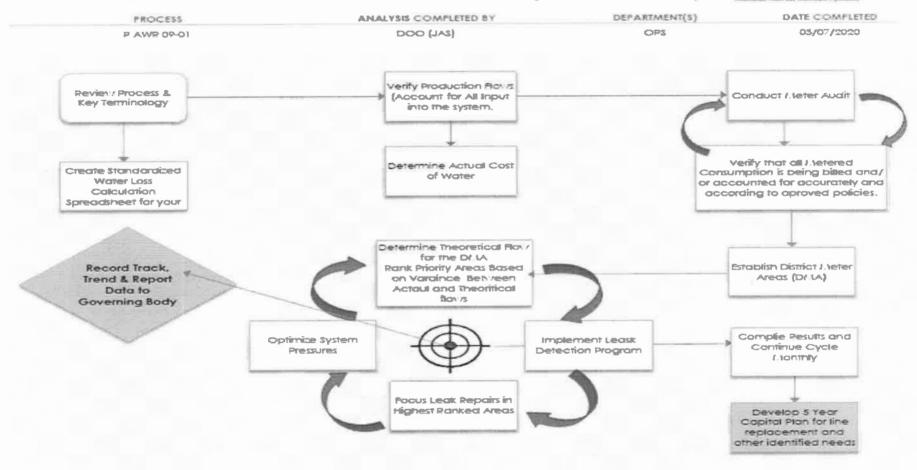
WATER LOSS REDUCTION

► GIS IMPLEMENTATION

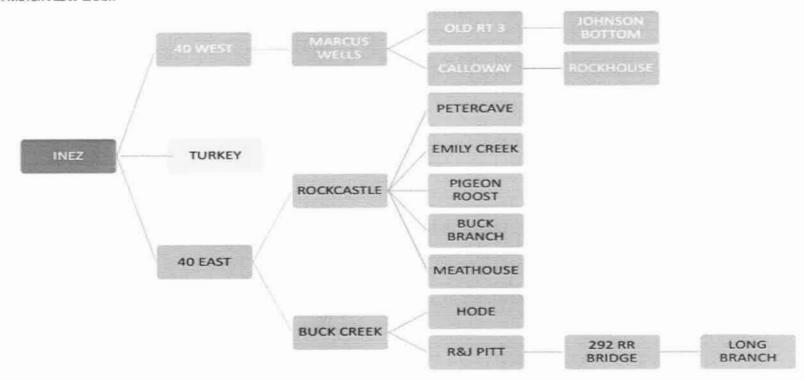
- ▶ District Master Meter Zones Established
- Customer Meter Location
- ► Leak Tracking
 - ► Reported Leaks
 - ▶ Active Leaks
 - ► Repaired Leaks
 - ► Trouble Zones For Replacement
- ▶ Water Loss SOP and M36 Manual
 - ► Strategic approach using GIS, PRV's, and District Meters for Leak Detection
 - ► Established Leak Detection Team
 - ► Water Meter Replacement

WATER LOSS CONTROL PROGRAM FLOW CHART (FC AWR 09-02)

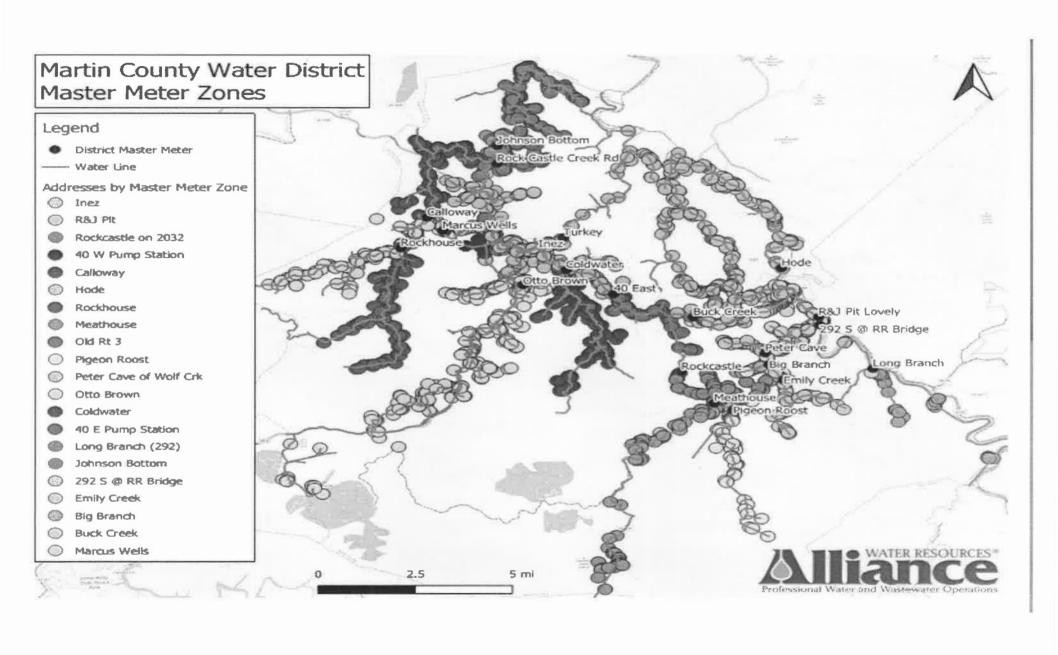




MASTER METER FLOW CHART



HOITAGOS	MASTER	BOOKE	ACCOUNT	PREVIOUS MONTHS FINAL READ	CURRENT READ	USAGE	CURRENT READ S/5/2021	USAGE	CURRENT READ 5/12/2021	USAGE	CURRENT READ	USAGE	MONTHLY	MONTHLY BILLED CONSUMPTION	OPTERING	BILLED AVG
PRODUCTION/INEZ	1506821	1.3				8,336,604	651,551,000	8,521,197	2) 12[141]	USAUL	2/13/1011	USAGE	16,857,801	SEPTIME THE STREET	DALENGACE	133,792
		1,3														-
Coldwater	62312310	- 4	286	582,927,990	583,846,900	918,910	584,686,900	840,000					1,758,910			6,150
Otto Brown	62312309	6	405	15,340,290	15,665,591	325,301	15,929,400	263,809					589,110			1,455
TOTAL SUB METERS			691			1,244,211		1,103,809					2,348,020			3,398
Turkey	E2829960001475	4	260	26,895,911	27,370,436	474,525	27,848,180	477,744					952,269			3,663
40 E Pump Station	62312312	5	1		The state of the s	0	The second second	0					0			1 000
Buck Creek	89211330	9,11,17,18				406,000		654,401					1,060,404			2,905
Hodi	62312235	30				573,760		518,010					1,091,770			4,788
2925 @ RR Bridge	70519212	12			125,806	-1							-1			0
RSJPR	43640193	13		725,787,000		719,000		652,000					1,371,000		P. LET	FORV/OI
Long Branch (297)	62312313	16			162,054,360	0	162,054,160	Ū					2 11 2 12 2			
TOTAL SUB METERS			997			1,292,759		1,824,434					3,117,173			3,127
Rockcastle on 2032	46384882			24,680,200	05,365,100	167,346	85,991,400	100,517					267,863			#Ofy/O
Pigeon Roost	62312242	14	229	2,607,870	2,667,960	65,090	2,776,140	108,180					173,270		6. 6. 1	757
Peter Care of Wolf Crk	62312243	13			25,089,817	3,436	25,0%,245	6,431		and the			9,864		-	96
Meathouse	62312239	15	56	18,664,159	19,055,748	391,589	19,407,044	351,2%		outs to		3 - 12 - 1	742,885			7,738
Emily Crock	70915637	24	300	32,120,588	32,157,589	37,001	32,194,540	蒸 ,551					73,952			6/V103
Big Branch	72103041	14	0	15,931,325	15,951,763	20,438	15,974,691	22,928					43,366			CAVION
TOTAL SUB METTAS			421			517,554		525,783					1,043,337			2,438
40 W Pump Station	60869002	8		62,938,050	64,701,710	1,763,660	66,278,960	1,577,250					3,340,910			
Marcus Wells	87860573	8	400		The second secon	1,563,000		1,399,000					2,962,000			8,352
Calibrat	62045452	8	95			1,146,010		996,780					2,142,290	UMLET		22,550
Rockhouse	62312238	-		43,838,A87	93,939,564	101,077		94,826		1 E 60 F			195,903			15 E
Old 81 3	62312241	7	393		3,388,386	172,509		742,738				4-7	1,615,247	00000		498
Johnson Battom	63786120	7	25			41,127		311,995		N 94 F E		13	80,122			3,206
TOTAL			913	150		3,723,723		3,271,835	B/36-1				6,995,562			7,862
TOTALS			3,289	11 = 5, 11 51		6,778,247		7,203,589					13,981,836			



IMPORTANT WATER LOSS NOTES

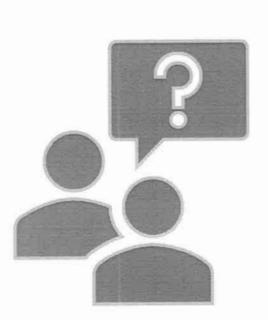
- ► February Water Loss 67.7%, March Water Loss 76.59%, April Water Loss 65.3%
- ▶ Plant Has Averaged 1.68 MGD For the Past 5 Weeks
- ► Shutting Plant Down for 4 Hours Every Other Day
- ► Water Pumped to Prison was 3.2 Million for April and on track for 3.5 million in May
- ► *Estimated* 40 Million Gallons Recovered In the Month of March From Repaired Leaks

IMMEDIATE NEEDS LIST FOR MARTIN COUNTY

- ▶ AMI/AMR METER READING SYSTEM
- GENERATORS FOR ALL CRITICAL INFRASTRUCTURE
- ▶ PUMP REDUNDENCY
- ► SCADA AND TELEMETRY UPGRADES FOR PLANT AND REMOTE SITES
- WATER LINE REPLACEMENT AT MULTIPLE LOCATIONS
- ▶ HIGH SERVICE PUMP REPAIRS/UPGRADES IN PLANT
- ► ALL PROJECTS HAVE BEEN ESTIMATED AND RFQ'S HAVE GONE OUT

Martin County Water and Wastewater Projects

No.	WRIS	Project Description		Amount		
1	WX21159013	Meter Replacement	s	1,716,000.00		
2		Fixed/Portable Generator Project for RWI, 40E & 40W Booster Stations 60 HP Motor Duplex Stations	5	429,000.00		
3		Telemetry/booster station upgrade at Route 292	\$	358,000.00		
4	WX21159009	SCADA upgrade at WTP with VTScada and Allen Bradley PLC's/System wide	\$	1,324,000.00		
		Telemetry upgrade, plant equipment/online turbidity meters, CL17, online fluoride meter bench top meter and high service pump VFD replacement				
5	WX21159020	Water line replacement at City of Inez, Blacklog Road Line Replacement from Turkey Creek 40E Booser Station, WTP to Turkey Creek, Old Route 3 from Inez to	\$	36,428,000.00		
		Milo, Coldwater Line Replacement				
6		Inez Sewer Line Replacement/lining/smoke testing	\$	14,915,000.00		
7		WTP High Service Pump Replacement	\$	750,000.00		
		TOTAL	\$	55,920,000.00		



Questions?

