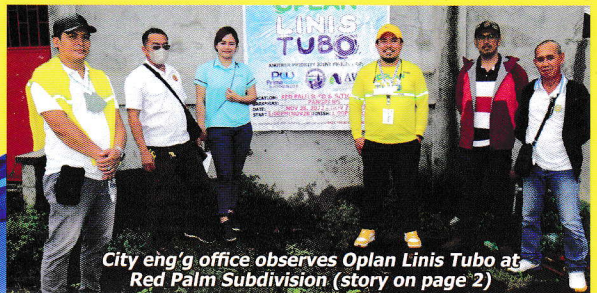


Official Monthly

WATER FLOW



City eng'g office observes Oplan Linis Tubo at Red Palm Subdivision (story on page 2)

Plumbers from R. Abalos Construction Co., PrimeWater contractor, pulling out the riser pipe of Pamurayan Pumping Station last November 14



Pamurayan PS production improves by 40%

By: Carl Bruce M. Guantero

Preventive repair and maintenance conducted by Primewater-Sorsogon City on the well and riser pipes of Pamurayan Pumping Station (PS No. 9) at Brgy. Pamurayan resulted to an almost 40% increase in its daily production.

According to PrimeWater-Sorsogon City Water Resources Engineer Florenz Marc G. Bermundo, pump production was measured between 650 to 700 cubic meters per day (cmd) as of November 24 as an outcome of the activity.

This was a 40% improvement in its pre-maintenance pump production between 470 to 500 cmd.

Led by Engr. Bermundo, pump operators and plumbers from PrimeWater-Sorsogon City and R. Abalos Construction Co. (PrimeWater service contractor) pulled-out 18 lengths of 4-inch diameter riser pipes together with its 15-hp submersible pump and motor on November 14.

This was followed by washing and rinsing activities to remove sediments and other deposits stuck along the linings of the riser pipes as well as along the linings of the Pamurayan well itself.

Normal pump operations resumed by noontime of November 15 with the re-installation of riser pipes and pump and motor and completion of intensive flushing works.

The gradual decrease in the Pamurayan PS production was noticed by PrimeWater-Sorsogon City and was attributed to sedimentation and clogging of the well and riser pipes or possible defect in its pump and motor, which prompted the activity.

PrimeWater-Sorsogon City also conducted corrective and preventive maintenance works for PS No. 9 last February 2020 and April 2020, respectively.

SCWD IGM Engr. Eduardo P. Tejada, upon his assumption in December 2019, directed the revival of 24/7 pump operations at Pamurayan upon learning of its intermittent operations which, at that time, produced only three cubic meters per day.

PS No. 9 was completed in 2004 and initially supplied approximately 500 cmd for SCWD's expansion of water services to barangays Pamurayan, Peñafrancia, Cambulaga and Tugos.

Spring production up by 56%

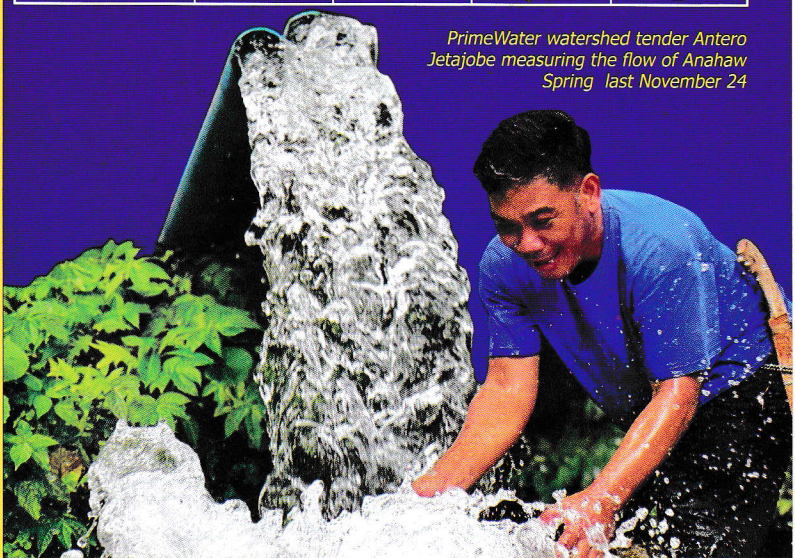
By: Elaine Leith S. Olea

An increase of 56% in the production of spring sources was observed during the volumetric flow measurement and inspection of the over-all condition of the spring facilities at Sitio Bagong Sirang, Brgy. Macabog last November 24.

A combined total of 201.4 liters per second (lps) was registered by the spring sources Alinao 1, Alinao 2, Matacla 1 & 2, Matacla 3 and Anahaw, which was higher than the previous data collected last October 26, with only 129.5 lps. (Continuation on Page 2)

Spring source flow measurement comparison (all values in liters per second)

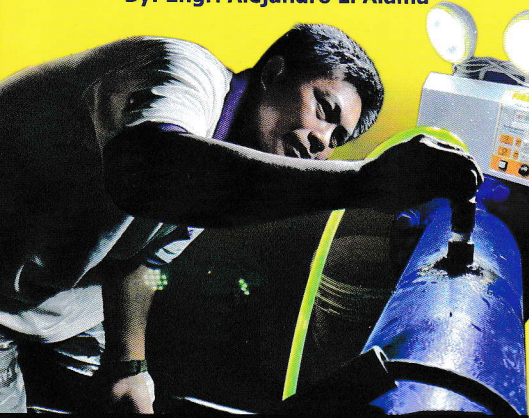
| Spring Source | November 24 | October 26 | Difference | Remarks |
|---------------|--------------|--------------|-------------|----------|
| Alinao 1 | 12.9 | 7.5 | 5.4 | ↑ |
| Alinao 3 | 93.3 | 66.7 | 26.6 | ↑ |
| Matacla 1&2 | 29.0 | 24.7 | 4.3 | ↑ |
| Matacla 3 | 22.3 | 9.9 | 12.4 | ↑ |
| Anahaw | 43.9 | 20.7 | 23.2 | ↑ |
| TOTAL | 201.4 | 129.5 | 71.9 | ↑ |



PrimeWater watershed tender Antero Jetajobe measuring the flow of Anahaw Spring last November 24

PrimeWater, Abejo Waters Corp. complete repair, maintenance works at water facilities

By: Engr. Alejandro L. Alama



AWC pump operator Jupiter Pasio at checking the chlorinator pump injection point St. Raphael Pumping Station last November 16.

To ensure the efficiency of the SCWD water distribution system from catchment to consumer as directed by SCWD IGM Engr. Eduardo P. Tejada, SCWD's private partners PrimeWater-Sorsogon City and Abejo Waters Corp.-Sorsogon Bulk Water Supply (AWC SBWS) completed repair and maintenance works of various facilities in the month of November 2022.

PrimeWater-Sorsogon City replaced the flowmeter and variable frequency drive (VFD) at Bibinchahan Pumping Station (PS No. 2) on November 24 and November 28, respectively.

The installation of the new 6-inch production meter enabled PrimeWater-Sorsogon City to read and report the actual volume of water produced by PS No. 2 while the new VFD allowed them to manage water supply distribution during peak and off-peak hours.

New VFDs will also be installed at Villa Alegre Pumping Station (PS No. 5), Pamurayan

PS (PS No. 9) and Guinlajon Pumping Station (PS No. 10) next year.

AWC SBWS, for its part, relocated the injection point of its chlorinator facilities within the AWC St. Raphael Pumping Station at Brgy. Pangpang last November 16.

They also re-configured the water system clarifier installed within the AWC Ultra-Filtration and Treatment Plant at Brgy. Guinlajon to address high turbidity of their Cawayan River surface water source due to heavy rains.

PrimeWater-Sorsogon City also repaired major line breakages along Magsaysay St., Brgy. Bibinchahan and National Highway, Brgy. Guinlajon on November 25, the latter in coordination with AWC SBWS.

PrimeWater-Sorsogon City has been in-charge of the operation and maintenance of the SCWD water system since October 2016 while AWC has been SCWD's bulk water supply since March 2015.

Spring production up by 56%

Continuation from Page 1

These springs were the major water source for OLV and Imperial Homes Subdivision, Brgy. Pangpang and parts of Brgy. Macabog and Brgy. Bibinchahan.

As directed by SCWD IGM Engr. Eduardo P. Tejada, the team from the SCWD Engineering Operation Department personnel led by Division Manager Engr. Alejandro L. Alama and from PrimeWater-Sorsogon City headed by Water Resources Engr. Florenz Marc G. Bermundo conducted the joint inspection and monitoring of the spring sources and facilities; collected water samples for the semi-annual physical-chemical analysis; and performed flow measurement.

This was to ensure that these facilities springs were properly used and well maintained by PrimeWater Sorsogon City based on Section 2.5.2(ii) of the SCWD-PrimeWater Joint Venture Agreement.

Joining the regular joint SCWD and PrimeWater activity for SCWD were: Senior Laboratory Technician Charmaine B. Mandane RMT and job order workers Alpha Mae C. Ditan, Wilfredo T. Doctor Jr., Carl Bruce M. Guantero and Renato M. Lirio; and for Prime Water-Sorsogon City: Ferdinand R. Carag, Antero Jetajobe and Adolfo Jetajobe.

4Q COVID-19 support kits distributed

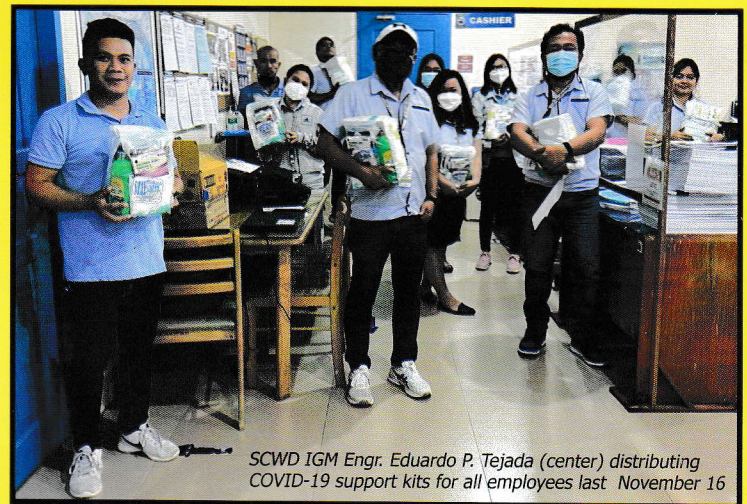
By: Ma. Katherine V. Deblois

Year 2022 led the way to the gradual but steady recovery of the country from the clutches of the COVID-19 pandemic.

Nevertheless, SCWD, through IGM Engr. Eduardo P. Tejada, maintained its focus in ensuring the health and well-being of its employees.

SCWD sustained the continuous and strict adherence to minimum health protocols, implemented regular office disinfection and decontamination and provided support to all of its officers and employees.

Thus, on November 16, IGM Tejada distributed the 4th Quarter FY 2022 COVID-19 support kits for



SCWD IGM Engr. Eduardo P. Tejada (center) distributing COVID-19 support kits for all employees last November 16

all SCWD officials and employees which contained N95 masks, alcohol, hand sanitizer and vitamins.

The distribution was seen by SCWD employees as timely and relevant and timely since colds have been prevalent due to the cold weather and infection remained

a risk amidst the preparation for the upcoming Christmas festivities.

The SCWD Management led by IGM Tejada assured that it has been, and will continue to be, the advocacy of SCWD to protect the health of its employees and the consuming public who avails of its services.

City eng'g office observes Oplan Linis Tubo at Red Palm Subd.

By: Annabelle V. Ancheta

The Local Government Unit-Sorsogon City, through the City Engineering Office headed by City Engineer Roel D. Domer, observed the conduct of the Oplan Linis Tubo at Red Palm Subdivision and Ilawod, Brgy. Pangpang on November 28-29.

Assistant City Engineer Dan Diaz, Engr. Jerson Sagundel and Mr. Jose Dagñalan were present when the actual air scouring and flushing activities were performed at the two areas on November 28.

They were assisted by PrimeWater-Sorsogon City Branch Manager Engr. Ronel Roger S. Pereyra, Abejo Waters Corp.-Sorsogon Bulk Water Supply Plant Manager Biff D. Bulanon and SCWD Division Manager Engr. Alejandro L. Alama.

SCWD IGM Engr. Eduardo P. Tejada invited the city's engineers to witness the Oplan Linis Tubo as SCWD's partner in the water service delivery in Sorsogon City.

"SCWD is fully committed to improve the

water service delivery here in Sorsogon City, thus the continuous implementation of projects and activities, like the Oplan Linis Tubo, towards ensuring and sustaining water quality improvement and we welcome our government partners and stakeholders to observe our best practices," said IGM Tejada.

Earlier on November 25, IGM Tejada coordinated with the Sangguniang Barangay of Pangpang through Brgy. Kgw. Roland Areola on the conduct of Oplan Linis Tubo.

It can be noted that the LGU-Sorsogon City Sangguniang Panlungsod issued SP Resolutions No. 005, s. 2022 "Resolution Respectfully Requesting the Sorsogon City Water District and Primewater Infrastructure Inc. to allow the City Engineering Office to Conduct Series of Inspection along with its Team and Provide Report Corresponding to their Findings and Recommendations in Relation Thereto" and No. 045, s. 2022 "Resolution Respectfully Requesting Hon. Ma. Ester E. Hamor, City Mayor, Sorsogon City, to Authorize the City

Engineering Office to Conduct an Independent Surveillance Inspection on the Water Sources and Projects of the Sorsogon City Water District and Primewater Infrastructure Inc. and Thereby Issue its Corresponding to their Findings, Conclusions and Recommendations in Relation Thereto."

Red Palm Subdivision and Ilawod have 38 active concessionaires as of November 30.



PrimeWater plumbers George R. Barlongay and Sergio F. Fortes opening one of the blow-off point inside Red Palm Subdivision, Brgy. Pangpang last November 24.

EFFICIENCY

(Part 1 of 2)

by: ENGR. EDUARDO P. TEJADA
Interim General Manager

The efficiency of water service delivery is largely dependent on the prevailing condition of the distribution system.

SCWD's water system presently maintained and operated by PrimeWater-Sorsogon City is composed of sources, storage facilities and the distribution system, including individual service connections to water consumers.

The original waterworks system of the former Municipality of Sorsogon was constructed in 1929, composed of water sources tapped from a series of springs developed between 1929 and 1957.

Spring water was conveyed through the 150- mm diameter transmission line to a break pressure chamber which

was then divided into the two chambers, one supplying barangays Pangpang and Macabog while the other supplying Brgy. Bibincahan. Spring water was stored in the trapezoidal concrete reservoir at Brgy. Macabog while water supply for Brgy. Bibincahan was stored in the cylindrical ground reservoir at Sitio Baribag. These facilities are still being used to this day.

In 1980, the first deepwell of SCWD was constructed at Sitio Baribag. Originally a turbine pump, water was pumped into the Baribag Reservoir before discharging it into the distribution system. The turbine pump was replaced with a submersible pump and motor in 2006 to enhance its efficiency. The mixture of spring water and pumped water was stored in the Baribag Reservoir where water treatment through chlorination was applied.

Another well was constructed and operated as Pumping Station No. 2 beside the Our Lady of Peñafrancia Seminary, also at Brgy. Bibincahan, in 1995. Additional deepwell sources were constructed from 1999 to 2022 within the main service areas of SCWD, bringing to 16 the

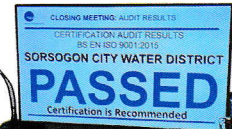
number of operational deepwells to date.

All deepwells have varying well casings and well depth, ranging from 4 inches to 10 inches and from 74 meters to 170 meters, respectively. Water is drawn using submersible pumps and motors ranging from 5Hp to 60Hp and are operated using either a variable frequency drive or reduced voltage automatic transformer. Main power is sourced through the Sorsogon II Electric Cooperative while stand-by generator sets are used during power service interruptions.

Another SCWD water source is the bulk supply from Abejo Waters Corp. Bulk Water Supply Ultra-filtration and Treatment Facility at Sitio Rangas, Brgy. Guinlajon, using Cawayan River as surface water source since 2015. Filtration is done by a two-unit modular micro ultra-filtration system with a capacity of 3,000 cubic meters per day. Filtered

water is stored and treated, conveyed via 1.4 kilometers of 200mm transmission line and injected into the SCWD distribution system. Two additional deepwells were completed by AWC at Brgy. Guinlajon (2019) and St. Raphael Subdivision, Brgy. Pangpang (2021), bringing AWC's total estimated production to 5,400 cmd.

PrimeWater-Sorsogon City also purchases treated water from Casiguran Water District via a Memorandum of Agreement beginning on 2016 at a minimum volume of 500 cmd on the first year, and increasing volume delivery to up to 2,000 cmd on the 25th year.



Reference: SCWD Citizens Charter 2020 Edition

SCWD submits new WSP for LWUA review

By: Annabelle V. Ancheta



SCWD submitted its Water Safety Plan 2022 Edition to the Local Water Utilities Administration for review and evaluation on November 9-10 at the LWUA Office, Balara, Quezon City.

The review and evaluation were conducted by the LWUA WSP Committee members Engr. Ajerco C. Comia and Engr. Jessielen D. Catapang together with SCWD WSP Assistant Team Leader Engr. Alejandro L. Alama (See photo above).

Once approved, the SCWD Water Safety Plan 2022 Edition shall be valid for three years and shall be adopted and implemented by Primewater-Sorsogon City pursuant to Section 5.1.7 of the SCWD-Primewater Infrastructure Corp. Joint Venture Agreement.

SCWD's Water Safety Plan 2019 Edition was first approved and accredited by the Department of Health on September 26, 2019 under Certificate of Water Safety Plan Acceptance No. 2019-0067 and was valid until September 25, 2022.

However, necessary revisions were

needed to integrate changes in the composition of the SCWD WSP Team; new SCWD water safety plan procedures as certified under ISO 9001:2015 by the NQA-UKAS; as well as new and additional water sources, storage facilities, treatment facilities, distribution lines and service connections.

The SCWD WSP Team is headed by SCWD Interim General Manager Engr. Eduardo P. Tejada as the Over-all Supervisor and Head of Agency, assisted by Primewater-Sorsogon City Branch Manager Engr. Ronel Roger S. Pererya, WSP Team Leader, and key personnel of SCWD and Primewater-Sorsogon City, as WSP Team members.

The preparation of SCWD WSP was in compliance with the Water Safety Program by the DOH and World Health Organization together with LWUA which aimed to provide safe and accessible drinking water for the public through water quality surveillance initiatives to guarantee the operations and compliance of all water districts – from catchment to consumer – to the 2017 Philippine National Standards for Drinking Water.

PrimeWater completes 540 l.m. pipeline expansion to Brgy. San Ramon

By: Renee Rose T. Anagon

Pipelining and interconnection of 540 linear meters of two-inch diameter distribution lines for Brgy. San Ramon, Bacon District was completed by PrimeWater-Sorsogon City last November 22.

As part of PrimeWater Sorsogon City's one-year catch-up plan on pipeline extension, the new San Ramon pipeline was tapped from the six-inch transmission line supplied by the nearby San Vicente Pumping Station at Brgy. San Vicente, Bacon District.

The project was accomplished by PrimeWater-Sorsogon City through Operations and Maintenance Engr. Jerome J. Buen under the direction of Branch Manager Engr. Ronel Roger S. Pereyra and was realized through the assistance of the local government of the Province of Sorsogon and the Provincial Engineering Office (PEO).

The Sangguniang Barangay of San Ramon, headed by Punong Barangay Victor D. Detera, thanked SCWD and PrimeWater-Sorsogon City for the extension of water

supply services to their barangay.

The pipeline expansion was also part of PrimeWater's compliance to their service obligation on service coverage, under Section 5.1.1 of the Joint Venture Agreement which states that they shall provide water supply services to as many consumers in the JV area as practicable by providing water supply services to all connected consumers in the SCWD covered areas and by making additional connections sufficient to meet the coverage targets set out in the improved/revised JV proposal.

With the expansion to Brgy. San Ramon, PrimeWater's service coverage increased to 35 out of the 64 barangays of Sorsogon City.

In preparation for new service connection applications, PrimeWater-Sorsogon City Commercial Services Team Leader Ms. Mila C. Buenaobra conducted an orientation seminar at the Brgy. San Ramon chapel last November 24, with 40 residents in attendance.

San Ramon Punong Barangay Victor D. Detera (left) in a discussion with PrimeWater Branch Manager Engr. Ronel Roger S. Pereyra (right) and Commercial Services team leader Mila C. Buenaobra as other residents look on during the orientation seminar for new connections at the San Ramon Chapel last November 24



Personnel of SCWD's Engineering and Operations Department, PrimeWater-Sorsogon City Water Resources Department and Abejo Waters Corp. Sorsogon Bulk Water Supply collected 26 water samples for the semi-annual physical-chemical analysis of water sources last November 23-25.

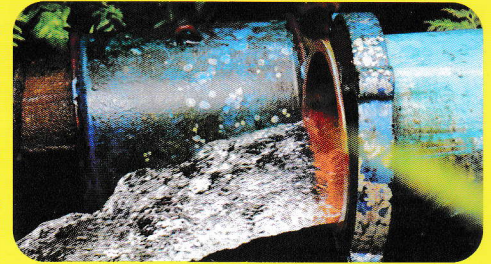
PrimeWater's sampling points were spring sources Anahaw, Alinao 1, Alinao 3, Matacla 1&2 and Matacla 3 at Sitio Bagong Sirang, Brgy. Macabog; all deepwells at pumping stations located at Sitio Baribag, Bibinchan near Our Lady of Peñafrancia Seminary, Imperial Subdivision, Villa Alegre Subdivision,

Cabid-an, Pamurayan, Guinlajon, San Pascual, Macabog, San Isidro, San Vicente, Sitio Madan-an and Sitio San Lorenzo; as well as taps located in the households of Celeste Dreo at SPPVS, Brgy. Bibinchan; Elmo Mella at Brgy. Burabod; Leopold Jaramiel at Brgy. Cambulaga; Dolores Enriquez at Seabreeze Homes, Brgy. Cabid-an, and Marilou Dioquino at Sitio Basud, Brgy. Poblacion;

Water samples for AWC Sorsogon Bulk Water Supply were collected from the deepwell inside the Ultra-Filtration and Treatment Plant at Sitio Rangas, Brgy. Guinlajon and St. Raphael Pumping Station, Brgy. Pangpang.

This activity was participated by SCWD EOD through Division Manager Engr. Alejandro L. Alama, Senior Laboratory Technician Charmaine B. Mandane RMT and job order workers Alpha Mae C. Ditan, Wilfredo T. Doctor Jr., Carl Bruce M. Guantero and Renato M. Lirio and; PrimeWater-Sorsogon Water Resource Engr. Florenz Marc G. Bermundo and personnel Ferdinand R. Carag, Antero Jetajobe, Adolfo Jetajobe, Edmund Llapitan, Arnie Millapre; and AWC pump operators Dimas T. Pasion and Den Mark B. Domingo.

Physical and chemical analysis is being conducted twice a year to determine if the water produced from all water sources as well water in consumers taps is in accordance with the parameters of 2017 Philippine National Standards for Drinking Water.



SCWD-PrimeWater coordination leads to completion of water supply improvement projects

By: Alpha Mae C. Ditan

Two water supply improvement projects were accomplished by PrimeWater-Sorsogon City this November 2022 as a result of the regular SCWD-PrimeWater Sorsogon City coordination activities.

First, PrimeWater-Sorsogon City's Operation and Maintenance personnel headed by Engr. Jerome J. Buen implemented pipelaying of 150 linear meters of two-inch diameter PE pipes, interconnection and clustering of 10 water meters at Purok 3 and Benzon Compound, Brgy. Salog last November 4 - 7.

The new pipeline was an extension of the 200-linear meter, two-inch diameter PE pipeline installed by PrimeWater-Sorsogon City from Housing Project, Brgy. Bibinchan to Benzon Compound earlier in February this year as instructed by SCWD IGM Engr. Eduardo P. Tejada to address water supply deficit in the upper portions of Brgy. Salog.

Second, water supply improvement activities were also implemented along Maharlika Highway, Brgy. Pangpang last November 8 - 12 where 300 linear meters of two-inch diameter PE pipe were laid from Pangpang Crossing to the Pangpang-Tugos boundary.

Clustered water meters along the new pipeline were also tapped to the new supply.

Based on SCWD's monitoring, water supply for households, commercial establishments, radio stations, hospitals and subdivisions within the project area substantially improved, with pressure readings ranging from 35 to 40 psi, as compared to previous readings of 0 to 5 psi.


In addition to these two completed projects, PrimeWater-Sorsogon City continued water rationing to various areas with intermittent supply this November 2022 using their 10-cubic meter water tanker.

A young boy passes by the new two-inch diameter PE pipeline at Purok 3, Brgy. Salog last November 4.

SUMMARY OF NOVEMBER MONITORING ACTIVITIES



- 29% - Compliance to Chlorine Residual
- 83% - Compliance to Turbidity
- 82% - Compliance to Microbiological Quality
- 13.53 PSI - Average Systems Pressure
- 59% - Compliance to Pressure (at least 7.0 psi)



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