

THE FLOW

Vol. XXI No. 10 October 2022

SCWD, Primewater in Year 6

(Story on page 2)



PrimeWater SORSOGON CITY

6th ANNIVERSARY

Official Monthly Newsletter of the Sorsogon City Water District

PrimeWater delivers water to consumers via water tanker

by: Engr. Alejandro L. Alama



PrimeWater-Sorsogon City physically rationed water to households, government offices, commercial establishments and communities using the PrimeWater's 10-cubic meter water tanker.

This included provision of water supply to the Civil Service Commission (CSC)-Sorsogon Field Office and the Bureau of Jail Management and Penology (BJMP)-Sorsogon City District Jail both located within the City Hall Complex, Brgy. Cabid-an last October 20.

Earlier on September 28, the water

tanker also supplied water at the Sorsogon Convention Center also at the City Hall Complex which was the venue of the 5th Regional Barangay Nutrition Scholars (BNS) Conference hosted by LGU-Sorsogon City.

From July to October, the water tanker provided temporary water supply to various communities affected by emergency repair of pumping station facilities and distribution lines, such as OLV Bibinchan, Rosville Subdivision, Sts. Peter and Paul Ville Subdivision of Brgy. Bibinchan as well as Pinaculan Island of Brgy. Bitan-of Dalipay.

PrimeWater-Sorsogon City also used the water tanker to temporarily supply Executive Village, Brgy. Tugos during the 'Oplan Linis Tubo' activities last October 27-28.

Commercial establishments requiring water supply for day-to-day operations such as Citimall Sorsogon, Gaisano Capital and Puregold Sorsogon were also regularly supplied using the water tanker with the actual volume supplied added on to their monthly water billing.

The water tanker, which

was delivered last July 4, was one of the capital expenditures of PrimeWater-Sorsogon City aimed at improving water service delivery in the City of Sorsogon.

Requests for water service delivery using the water tanker may be coordinated with SCWD via 0920 954 4983 or PrimeWater-Sorsogon City via 0921 749 8652.

BM Pereyra updates city council anew

By: Riza A. de Jesus

Engr. Ronel Roger S. Pereyra, branch manager of PrimeWater-Sorsogon City, attended again the regular session of the 8th City Council at the Session Hall, City Hall Complex, Brgy. Cabid-an on October 25 at 2:00 p.m.

BM Pereyra has been invited to the regular session of the Sangguniang Panlungsod since he became the branch manager last June 2022, the most recent of which was on August 16.

The purpose of his attendance was to determine the possible participation of the City Government of Sorsogon in the ratification of the Joint Venture Agreement entered into by and between the SCWD and Prime Water

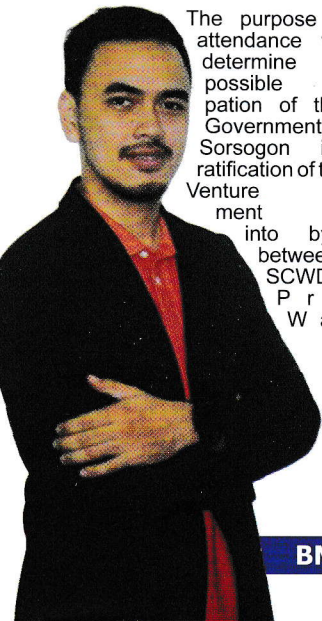
Infrastructure Corp. back in 2016.

Another concern answered by BM Pereyra was the intermittent water supply at Benzon Compound, Brgy. Salog as raised by SP members. According to him, they will validate the low pressure/ no water complaints to come up with a proper recommendation considering that not all concessionaires at Brgy. Salog experienced the same situation.

As of October 31, however, Benzon Compound experienced water supply from 20 to 24 hours a day, after PrimeWater-Sorsogon City completed the additional 2-inch diameter pipelaying and interconnection works from Purok 1 to Purok 3 supplied by an additional source from Housing Project, Brgy. Bibinchan.

In response to the query on the present water supply within the city and plans of PrimeWater-Sorsogon City to address the issue, BM Pereyra explained the upcoming projects for implementation such as the San Lorenzo source development, pipeline replacement and pipeline decommissioning to improve water supply and quality within the service area.

The council also requested the presence of a representative from the SCWD Board of Directors on the next regular SP session.



BM Pereyra



SCWD assists SM City Sorsogon; sustains water quality, pressure monitoring activities

SCWD provided assistance to SM City Sorsogon as the mall opened its doors last October 28, part of its function of monitoring the over-all supply and quality of water as provided by PrimeWater-Sorsogon City.

SCWD's Senior Laboratory Technician Charmaine B. Mandane RMT collected water samples for microbiological analysis on October 25 (photo above) prior the issuance of the Certificate of Potability to SM City Sorsogon.

The mall's water requirement is 800 cubic meters per day and is supplied by PrimeWater-Sorsogon City using the Cabid-an Pumping Station and San Vicente Pumping Station.

Water sampling at SM City Sorsogon was part on the month-long water quality monitoring activities completed by SCWD in October 2022.

A total of 25 water samples were tested for microbiological analysis at the Dr. Fernando B. Duran Sr. Memorial Hospital Water Laboratory on October 4, 10, 18, 24 and 25 wherein 19 samples were found to be compliant to the 2017 Philippine National Standards for Drinking Water.

On the other hand, 307 water samples were tested for residual chlorine and turbidity, where 26.71% and 80.46% were found to be compliant to the 2017 PNSDW, respectively.

Average prevailing pressure for the month of October 2022 was measured to be 10.66 PSI.

Of the 112 pressure points monitored by SCWD on October 18-27, 49 locations have a pressure of at least 7.00 PSI while the remaining 63 locations showed a pressure from 0 to 7.00 PSI.(ALA)



PrimeWater's Edmund Llapitan checking the residual chlorine at one of the blow-off points inside Executive Village last October 28.

SCWD, PrimeWater, AWC complete 'Oplan Linis Tubo' at Tugos, Peñafrancia

By: Annabelle V. Ancheta

SCWD, Primewater Sorsogon City and Abejo Waters Corp. completed the conduct of 'Oplan Linis Tubo' at Executive Village, Rover Subdivision and Purok 4, Brgy. Tugos and Sitio Oraray, Brgy. Peñafrancia from October 27, 1:00 p.m. to October 28, 1 p.m.

Mandatory water interruption was implemented during the activity, ensuring that concessionaires were not exposed to the chemical injected in the system. To achieve this, closing of the main gate valve supplying Executive Village and of the household gate valves/ lockable valves of the 230 concessionaires were done by the 'Oplan Linis Tubo' team of PrimeWater-Sorsogon City led by Branch Manager Engr. Ronel Roger S. Pereyra; AWC, led by Plant Manager Biff D. Bulanon; and the SCWD Engineering and Operations Department, led by Division Manager Engr. Alejandro L. Alama.

Temporary water supply was provided using PrimeWater-Sorsogon City's water tanker.

The series of shock chlorination, massive air scouring and flushing activities of the supply system within the four areas was done to disinfect and clean the targeted pipelines of scaling which have accumulated over the years.

Based on SCWD's assessment, pipe scaling affected the flow and quality of water, resulting to a number of low pressure/ no water and turbid/ dirty water complaints from concessionaires.

Chlorine residual of the water system was also monitored by the team and by 1:00 p.m. of October 28, the Oplan Linis Tubo was concluded with a final reading of 0.36 ppm residual chlorine, which was within the prescribed threshold of the 2017 Philippine National Standards for Drinking Water and water supply was restored soon after.

Planning for 'Oplan Linis Tubo' was done weeks before its execution to ensure the smooth implementation of the activity, the first pipe disinfection and scouring almost 30 years after the energization of the water system in the area.

On October 25, SCWD IGM Engr. Eduardo P. Tejada personally conferred and coordinated with Barangay Chairmen Arnelito E. Garcia and Efrén Lafuente of barangays Tugos and Peñafrancia, respectively.

On October 26-27, SCWD's 'Oplan Linis Tubo' team distributed advisories to all affected households simultaneous with live announcements via loud speakers and the release of SMS advisory via the SCWD automated mobile blaster (AMBER) account, guaranteeing that all concessionaires of the project areas were properly informed for them to prepare and store water for domestic use while the activity was on-going.

SCWD, PrimeWater celebrate 6th JV anniversary

By: Renee Rose T. Anagon

SCWD and PrimeWater Infrastructure Corp. celebrated its Sixth Joint Venture anniversary last October 14.

It started with a thanksgiving mass presided by SCWD Director Rev. Fr. Philippe Andrew B. Gallanosa at the Our Lady of Peñafrancia Seminary Philosophy Department Chapel, Brgy. Bibincahan at 6:00 a.m., followed by a breakfast program at Juliana's Event and Function Hall, Brgy. Macabog where an anniversary program was hosted by PrimeWater-Sorsogon City personnel Angiela B. Nito and Joyen Wirla G. Gautane.

Present during the celebration were SCWD Board of Directors headed by Chairman Charles Clemente III, Vice Chairperson Rachel Bella G. Jao, Board Secretary Nancy L. Valdez and BOD members Engr. Jonathan G. Fortades and Rev. Fr. Gallanosa; SCWD Management headed by IGM Engr. Eduardo P. Tejada; PrimeWater Operations Head for South Luzon and Negros Engr. Ernesto M. Solis Jr., and PrimeWater-Sorsogon City Branch Manager Engr. Ronel Roger S. Pereyra, together with their respective staff. (see photo below)

Also in attendance were the private partners of SCWD and PrimeWater: Abejo Waters Corp. Sorsogon Bulk Water Supply represented by Mr. Biff D. Bulanon, plant manager; and PrimeWater maintenance and manpower service providers R. Abalos Construction Co. and MMSC Services Inc., represented by Engr. Ray Abalos and Ina Bachiller, respectively.

In his message during the program, IGM Tejada pointed out the significance of a teamwork just like a hard broom, "wherein the lesser the number of the broom sticks, the harder to finish cleaning tasks, and just like solving water problem situations, it can be resolved immediately with all the involved parties working altogether."

Vice Chairperson Jao, who delivered the message in behalf of the SCWD BOD, extended a congratulatory message to both SCWD and

PrimeWater for reaching the sixth year of the JV.

She added that the Board hopes that all the demands of the concessionaires will be met and "to at least eliminate negative comments from the bashers, may it be on social media or in-person; nevertheless, this can be attained if the water supply services shall be highly improved."

Engr. Solis, Engr. Pereyra and other guests shared their appreciation and inspirational anniversary messages.

To complete the celebration, the JV partners had the traditional anniversary toast showing appreciation and wishing each one's success; and the cutting of the anniversary cake which symbolizes the partnership's commitment for each other.

October 17, 2016 when the 25-year Joint Venture Agreement between SCWD and PrimeWater Infrastructure Corp. officially commenced for the financing, development, rehabilitation, expansion, improvement, operation and maintenance of the water supply and septage system of SCWD.



SCWD EOD inspects facilities for readiness vs. brownouts

By: Alpha Mae C. Ditan

SCWD Engineering and Operation Department staff, under the direction of SCWD IGM Engr. Eduardo P. Tejada, visited water resource facilities to inspect and monitor actual pump operations, water flow rates, chlorination activities, power supply data and status of stand-by generator sets, October 5-6 and 11.

IGM Tejada issued the directive that all water resource facilities must be inspected to make sure that all these were operational under normal conditions and can be operated even during scheduled or emergency power interruptions.

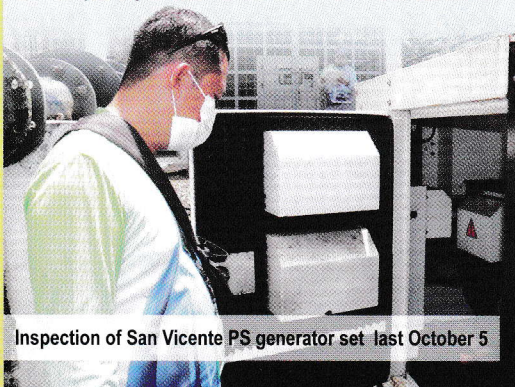
With the data collected from inspection and monitoring activities, SCWD issued recommendations to PrimeWater-Sorsogon City for the replacement, repair or preventive maintenance of all stand-by generator sets to ensure continuous pump operations and water supply to consumers.

Consequently, on October 7-8, PrimeWater-

Sorsogon City through Water Resource Engr. Florenz Marc G. Bermundo conducted preventive maintenance service on the stand-by generator for the Macabog PS and Bibincahan PS which were both operational by SCWD's follow-up inspection on October 11.

The facilities monitored last October 5 were: Bibincahan Pumping Station, Cabid-an PS, San Vicente PS, Baribag PS, Madan-an PS, Villa Alegre PS, Macabog PS, Imperial PS, Guinlajon PS and Pamurayan PS.

On October 6, the facilities monitored were: San Isidro PS, San Pascual PS, Bacon Sub-Office Steel-Bolted Tank and Booster Station, San Lorenzo Well No. 1 and Abuyog Concrete Tank and Booster Station with SCWD EOD Division Manager Engr. Alejandro L. Alama, Plumber/ Inventory Aide, Renato M. Lirio and Engineering Aides Alpha Mae C. Ditan and Carl Bruce M. Guantero.



Inspection of San Vicente PS generator set last October 5

Regular inspection of water resource facilities was done by SCWD using the ISO-aligned procedures and forms pursuant to the SCWD Quality Management System and as stated in Section 2.5.2 of SCWD-PrimeWater Joint Venture Agreement: "SCWD shall have the authority to inspect, at reasonable hours, the condition of SCWD facilities and PrimeWater facilities in order to determine whether said assets are kept in good condition and to enforce compliance measures upon PrimeWater to make good its obligation with respect to the management of these assets."

PrimeWater tweaks VFD frequency for off-peak hours

By: Carl Bruce M. Guantero

PrimeWater-Sorsogon City implemented the frequency reduction of variable frequency drives (VFD) installed at eight SCWD pumping stations as approved by SCWD, effective October 30.

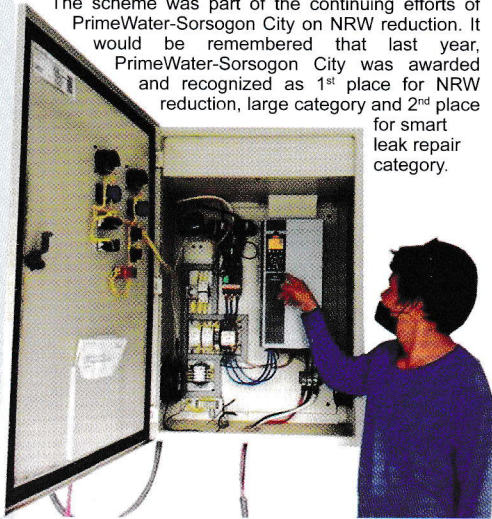
The frequency reduction was implemented during periods of high pressure and low water demand between 11:00 p.m. and 4:00 a.m. at areas served by the Baribag Pumping Station, Imperial PS, Cabid-an PS, San Pascual PS, Macabog PS, San Isidro PS, San Vicente and Madan-an PS.

In approving the proposed schedule last October 19, SCWD IGM Engr. Eduardo P. Tejada re-iterated that under no circumstances shall any of eight pumping shall stop its operation during off-peak hours to ensure water supply availability at all times.

The purpose of VFD frequency reduction was to manage non-revenue water (NRW) by lessening the effect of high pressure on distribution lines during off-peak hours, such pipe bursts and water loss.

When the VFD frequency was reduced, pumping speed of pump and motor were lowered, pressure and power voltage were minimized and power consumption was lessened.

The scheme was part of the continuing efforts of PrimeWater-Sorsogon City on NRW reduction. It would be remembered that last year, PrimeWater-Sorsogon City was awarded and recognized as 1st place for NRW reduction, large category and 2nd place for smart leak repair category.



Inspection of Madan-an PS VFD last August 2022

PrimeWater installs steel poles for Anahaw Filtration Basin perimeter fence

By: Engr. Alejandro L. Alama



Amid heavy rains and howling winds brought by Typhoon PAENG, nine steel poles were installed by PrimeWater-Sorsogon City around the Anahaw Filtration Basin at the upland portion of Brgy. Macabog last October 26.

Combined personnel from PrimeWater-Sorsogon City and service contractor R. Abalos Construction Co. led by Operations and Maintenance Engr. Jerome J. Buen completed the activity.

Installation of cyclone wires and barb wires around the Anahaw Filtration Basin will be implemented before the year ends.



PrimeWater O&M Engr. Jerome J. Buen

function under the SCWD-PrimeWater Joint Venture Agreement.

SCWD recommended the provision of appropriate covering and buffer zone for the Anahaw Filtration Basin to eliminate intrusion of foreign matter and discourage the entry of unauthorized persons which might compromise water supply and quality, after actual inspections conducted by SCWD Engineering and Operations personnel last April 12 and October 22 last year and February 4 this year.

According to Section 2.5.2. (ii) of the JVA, SCWD shall have the authority to inspect, at reasonable hours, the condition of SCWD Facilities and PrimeWater Facilities in order to determine whether said assets are kept in good condition and to enforce compliance measures upon PrimeWater to make good its obligation with respect to the management of these assets.

The installation of perimeter fence for the water impounding facility fed by Anahaw Spring located approximately 360 meters above sea level (13.014742°N, 123.977194°E) was directed by the SCWD Board of Directors and Management part of its Asset Management Supervision

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SCWD, PPP Center discuss SCWD-PrimeWater JV partnership

By: Ma. Katherine V. Deblois

Representatives from the Public Private Partnership (PPP) Center visited SCWD last October 28 to discuss the status of the project and the challenges and lessons learned in implementing the Joint Venture (JV) Project with PrimeWater Infrastructure Corp.

The PPP Center is an attached agency of the National Economic and Development Authority (NEDA), the main function of which is to provide technical assistance to national government agencies (NGAs), government-owned-and-controlled corporations (GOCCs), government financial institutions (GFIs), state universities and colleges (SUCs), and local government units (LGUs) in the development and implementation of PPP projects.

The discussion was attended by SCWD IGM Engr. Eduardo P. Tejada and SCWD Division Managers Ma. Katherine V. Deblois and Engr. Alejandro L. Alama and Kristina Alodia Armengol and Jay Louise Panis of the Project Monitoring Division of the PPP Center.

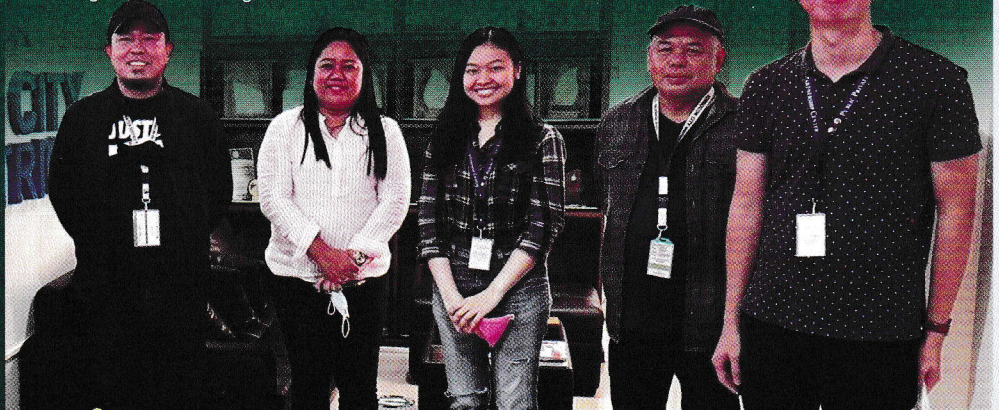
It focused on the compliance of PrimeWater on the various service obligations of the JV agreement such as performance bond, water supply, water quality, septage management system as well as the present status of the

properties owned by SCWD which are currently used by PrimeWater.

IGM Tejada also discussed the issues that SCWD are facing on its personnel wherein all promotions, permanency and employee hiring and promotions were put in abeyance because of the absence of approved Plantilla of Position which is a prerequisite on employees hiring.

According to Ms. Armengol, the PPP Center was

created to provide technical assistance to government offices with existing agreements/contract with private sector partners, and thus assured the SCWD Management that they shall provide assistance reviewing the proposed amendments on the existing JVA and come up with recommendations for the realization of the projects under the JV agreement.



SCWD IGM Engr. Eduardo P. Tejada (second from right) and SCWD staff together with Public Private Partnership Center representatives Kristina Alodia Armengol (center) and Jay Louise Panis (extreme right) after the SCWD-PPP Center dialogue last October 28.

'SCWD Tubig Express' features key officials

Key officials of SCWD, Abejo Waters Corp. and PrimeWater-Sorsogon City were featured as guests during the weekly program 'SCWD Tubig Express' for the month of October 2022.

SCWD Board Chairman Charles P. Clemente III discussed the policy-making functions of the SCWD BOD and the one-year PrimeWater catch-up plan in his guesting last October 11.

SCWD IGM Engr. Eduardo P. Tejada talked on the various SCWD projects and activities on the October 4 episode of the program.

PrimeWater-Sorsogon City Branch Manager Engr. Ronel Roger S. Pereyra, during his guesting last October 18, talked on the on-going catch-up plan as approved by the SCWD BOD and the recently-celebrated Joint Venture anniversary.

Finally on October 25, AWC Vice President for

Operations Engr. Jude Ryan Gantuangko presented the status of the bulk water supply operations for Sorsogon City and their plans for the future, in behalf of AWC President and CEO Gabino M. Abejo Jr.

The regular radio program aired on-air and online over 102.3 Spirit FM and the 102.3 Spirit FM Facebook page, from 8:30 to 9:30 a.m.

In addition to interviews of key officials, the one-hour blocktime program provided news items on SCWD, AWC and PrimeWater activities from the previous week as well as announcements on the billing schedule, barangay payment partners and local payment partners.

SCWD Public Relations personnel Engr. Alejandro L. Alama, Annabelle V. Ancheta and Renee Rose T. Anagon were joined by PrimeWater-Sorsogon City's team leaders Joyen Wirla G. Gautane and Engr. Jerome J. Buen handling the weekly program. (ALA)



TEDITORIAL

QUANTITY (Second of two parts)


by: ENGR. EDUARDO P. TEJADA
Interim General Manager

Water bulk suppliers are Abejo Water Corp. (AWC) and Casiguran Water District (CWD). Records reveal that volume of water delivered stands at 5,536 cubic meters or represents 31.03% of the total daily available water supply. The main challenge for bulk suppliers is also power supply. The issue on turbidity of Cawayan River that grossly affects the operation of Filtration System of AWC during heavy rains was recently given substantial solution through the installation of Water Clarifier. The provision of another genset with higher capacity (240 KVA) for Filtration is yet to be provided but expected to be installed within this year. Alternative extraction point is also being required of AWC to be used in times when another utility – Sunwest Water and Electric Co. (SUWECO) stops its operation that totally deprives AWC of its water supply from the river.

Influence area of AWC is the west district of the city while CWD supplies Abuyog, Buhatan and portion of Cabid-an.

Given the numerous variables that affect production of water, SCWD thru its partner, Primewater, should and must develop more water sources if only to sustain the daily demands of the city. Considering that pumping stations contribute the largest volume and considering also that it is heavily dependent on continuous and uninterrupted power supply which until now still remains a challenge even without calamity, developing more sources is indeed imperative.

While it is true that the present expected water production stands higher than the daily demands, under normal circumstances, intermittent water supply in some areas of the city is still prevalent. This will lead us to conclude that the Non-Revenue Water (NRW) and the efficiency of the system still needs to be addressed by



Public Relations Group

MA. KATHERINE V. DEBLOIS
ENGR. ALEJANDRO L. ALAMA
ANNABELLE V. ANCHETA
ELAINE LEITH S. OLEA

Members

RIZA A. DE JESUS, RENEE ROSE T. ANAGON, CHARMAINE B. MANDANE
RMT. PABLO L. GUTIERREZ & ARMANDO J. BASILIO

Support Staff

ENGR. EDUARDO P. TEJADA
Interim General Manager/ Adviser

2/F CDRRMO Building, City Hall Complex, Barangay Cabid-an, Sorsogon City PH 4700

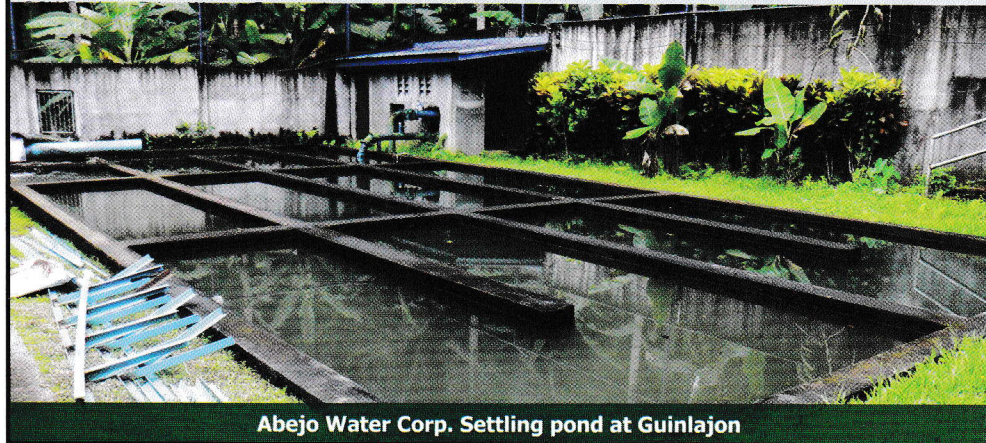
Hotlines: 0920 954 4983 & (056) 311 8739
website: www.sorsogoncitywd.gov.ph
Facebook: Sorsogon City Water District

surplus production to answer present and urgent water demands. Once NRW be reduced to an acceptable level of 20% and that the system be more efficient, some of those sources may in fact be put in a stand-by mode – ready to be commissioned once other PS breaks down; ready to be used by future water consumers.

The latest figure on NRW still stands at an average of 34.46%. While it is true that there is an improvement on the figure, still it is higher than the acceptable industry average.

It is good to note that SCWD thru its partner PrimeWater, recently opened a new pumping station at San Lorenzo, Bibinchan. PrimeWater is currently working on another water source in the same area to further boost water supply in the east portion of the city. AWC, with the support of SCWD, also contributed additional pumping station at St. Raphael Subdivision, Pangang last year with an average of 1,200 cu.m. yield. Another pumping station at Cabid-an located in the government center is currently being developed by SCWD, expected to contribute 1,500 cubic meters of water daily.

The quantity of water is vital. Good water supply will always begin with an appropriate quantity of water in any given circumstance.



Abejo Water Corp. Settling pond at Guinlajan

SCWD eng'g aides complete LWUA EPANET seminar



By: Elaine Leith S. Olea

Engineering Aides Alpha Mae C. Ditan and Carl Bruce M. Guantero (top photo) completed a seminar on hydraulic analysis and design using EPANET (Environment Protection Agency Network Evaluation Tool) sponsored by the Local Water Utilities Administration-Technical Assistance Department via zoom, October 17-20.

EPANET is a public domain, water distribution system modelling and simulation software package developed by the United States Environmental Protection Agency's (EPA) Water Supply and Water Resources Division which models water distribution piping system.

Seminar resource speaker was Engr. Allen M. Lowe, a hydraulic analysis and design specialist, who discussed about EPANET, its use and importance in the operation of local water districts. With EPANET, local water districts can design small water systems in the least amount of cost but still compliant to LWUA standards.

The four-day seminar provided a learning platform for modern technological skills as the participants were asked to design and simulate water system to fully understand how EPANET works.

According to Ditan, the seminar was very timely as they will be using EPANET to design the proposed pipelaying and well for the proposed San Lorenzo Well No. 2 and when used together with Geographic Information System (GIS), it will be useful in the analysis, monitoring and inspection of the SCWD water distribution system.

In related news, SCWD IGM Engr. Eduardo P. Tejada awarded last October 11 the Certificate of Completion to SCWD personnel conducting water quality monitoring activities who also finished another virtual seminar conducted by LWUA-TAD. They were: SCWD Senior Laboratory Technician Charmaine B. Mandane RMT and Driver/ Laboratory Aide Wilfredo T. Doctor Jr. who completed the online Water Quality Management Seminar last August 15-18. (bottom photo)

