



Philippine Sanitation Alliance

13th Quarterly Report

October to December 2010

Prepared by AECOM International Development for USAID/Philippines Office of Energy and Environment under Cooperative Agreement No. 492-A-00-07-00023-00, SO#492-004 on January 31, 2011

I. Executive Summary

During the quarter, the PSA project exceeded the life-of-project indicator for the amount of non-USAID financing mobilized for sanitation projects and facilities. The project has leveraged \$3,764,740 as of December 31. Overall, the project has met or exceeded five of the project's ten indicator targets. Two ordinances were passed during the quarter: San Fernando City, La Union, passed an ordinance on septage management and sewerage and Sta. Rosa City passed an ordinance requiring soap and handwashing facilities in all public restrooms. Sta. Rosa also completed a handwashing campaign aimed at mothers with children under five. A post-campaign survey showed an increase of 40.6 percentage points of target mothers who could cite two or more ways of preventing diarrhea. The city is now expanding the campaign to the rest of the city. The Zamboanga City Septage Management Council finalized and approved the Implementing Rules and Regulations for the city's septage management ordinance.

Two PSA partners, Laguna Water District and Calamba Water District, participated in twinning programs to learn about septage management from a water utility in Malaysia and a university in Taiwan, respectively. The twinning programs are organized by the USAID Environmental Cooperation-Asia (ECO-Asia) project. PSA continued to assist partners develop septage management projects in these two areas, plus Metro Naga, Metro Cebu and Cagayan de Oro. Sta. Rosa City expressed interest in developing a program as well.

Good progress was achieved in the two USAID-Rotary projects in San Fernando and Metro Manila. In San Fernando work focused on passage of the septage management ordinance and the promotion campaign. The Pasig River project achieved results in solid waste management in Quezon City and Sta. Ana, and the Sta. Ana sewage treatment plant was commissioned.

II. Results Achieved

Summary of Results

The project is on track to reach the intended results by September 30, 2011 as long as city and water district partners develop septage management project per agreed-upon schedules. This is needed to meet indicator number 1. Of the ten project indicators, AECOM has met or exceeded five of them as of the end of quarter 13 (December 31, 2010). These indicators are numbers 3, 4, 6, 8 and 9 in the table below.

PSA Indicator Results and Targets

Indicator	Qtr 13 Results	FY11 Target	Project Target
1. Number of people in target areas with access to improved sanitation facilities as a result of USG assistance (disaggregated by gender).	Men: 196 Women: 552 Total: 743	802,484	1,240,000
2. Number of feasibility and special studies/plans prepared	0	1	14
3. Amount of non-USAID financing mobilized for sanitation projects and facilities.	\$314,261	\$308,326	\$3,758,805
4. Number of people trained in environmental law, enforcement, public participation, and cleaner production policies, strategies, skills and techniques, disaggregated by gender.	Men: 8 Women: 339 Total: 347	-	1500
5. Number of people trained in child health and nutrition through USG-supported health area programs.*	-	196	1500
6. Increase in the percentage of mothers of children under five who can cite at least 2 measures to prevent diarrhea.	-	-	25%
7. Increase in the percentage of students who, while at school, observably wash their hands with soap and clean water after using the toilet to prevent diarrhea.	-	25%	25%
8. Number of pollution and urban environment policies, laws, agreements or regulations implemented as a result of USG assistance.	1	1	6
9. Number of hygiene-related policies, laws, agreements or regulations implemented as a result of USG assistance.	1	1	2
10. Number of wastewater treatment projects developed by PSA partners that reduce pollution to levels that meet the government's effluent standards.	1	6	10

Details of Results

1. Number of people with access to improved sanitation

Project	Men	Women	Total
Sta. Ana Public Market	196	552	748
Total	196	552	748

2. No feasibility or special studies/plans were completed during the quarter.
3. Amount of non-USAID financing mobilized

Private Sector	\$184,174.73		Cash	\$266,463.47
Public Sector	\$130,086.05		In Kind	\$47,797.31
Total	\$314,260.78		Total	\$314,260.78

(See attached summary in Excel. Cost share sheets from each partner are available upon request.)

4. Number of people trained

People Trained	Men	Women	Total
Training of Trainers on Septage Management- October 21, 2010-San Fernando, La Union	4	71	75
Training of Barangay Health Workers-November 17-24, 2010-San Fernando La Union	4	268	272
Total	8	339	347

5. None
6. None
7. None San Fernando City, La Union, passed Ordinance number 2010-014 amending Chapter 16 of the Sanitation Code of the city, which focuses on septage management and sewerage.
8. Sta. Rosa City passed an ordinance requiring soap and handwashing facilities in all public restrooms in November.
- 9.
10. Laboratory results from the JP Rizal District Hospital in Calamba show that it reduces pollution to levels that meet the government's effluent standards.

III. Summary of Major Accomplishments

1. Project Development

Zamboanga approves IRR for SMP Ordinance; Strengthens Promotions Campaign

The Septage Management Council of Zamboanga City signed the implementing rules and regulations (IRR) of the city's Septage Management Ordinance last Nov. 23. With the signing of the IRR, the Zamboanga City Water District is now ready to implement new fees in the water bill to cover the cost of the mandatory desludging services. ZCWD is projected to implement the new fees early next year, along with the solid waste management fee.

Mayor Celso Lobregat, who underscored the importance of the city's septage management program, led the drafting of the IRR. PSA Chief of Party Lisa Lumbao facilitated the review. Local media covered the proceedings, which were conducted at the city hall. The approval of the IRR was the headline story in the early evening news of ABS-CBN Zamboanga.

On Nov. 24, PSA's Lisa Lumbao and Consultant Andrea Echavez graced the 25th anniversary celebration of the West Mindanao State University where Lumbao spoke about Septage Management before hundreds of students and faculty. The talk was part of the city's SMP promotion campaign. After the anniversary program, Andrea Echavez facilitated a workshop where materials for the city's information drive on septage management were developed.

Laguna Water District Learns from Malaysian Utility

Representatives from the Laguna Water District (LWD) traveled to Kuala Lumpur November 9-11, 2010 to participate in a training program on septage management hosted by Indah Water Konsortium (IWK). The General Manager of LWD was especially interested in a mobile dewatering unit used by IWK. The training was supported by the USAID Environmental Cooperation-Asia (ECO-Asia) project. The PSA has been assisting LWD in developing a septage management program. Current plans include two phases. Phase one will include Los Baños and Bay LWD customers, or about 103,715 and 39 cu. m per day of septage. LWD has been discussing the possibility of locating the septage treatment facility at the University of the Philippines at Los Baños. PSA assisted LWD in drafting memorandum of agreement with the university. It will also include rehabilitation of the university's sewage collection and treatment system, which will serve about 12,000 people.

Twining between Calamba Water District and Taiwanese University

With funding from ECO-Asia, Calamba Water District (CWD) has entered into a water operator partnership with Chia Nan University (CNU) and Laguna Lake Development Authority. CNU will provide technical assistance on the design of a constructed wetland for septage treatment and LLDA will assist Angono and Lucban in developing septage management programs. CWD Board Director Milo Aguas, Assistant General Manager Resty Sumanga and staff Jay Contreras attended an MOU signing and training in Taiwan on Nov. 23-25, 2010. During the quarter PSA staff held several meetings with the water district, mayor and the city council on developing a sewage treatment facility in Bucal, and in identifying a site for the septage treatment facility.

Metro Naga Water District Officials visit Maynilad Facilities

Officials of the Metro Naga Water District (MNWD) visited Maynilad Water's Dagat-dagatan Septage Treatment Plant on December 2, 2010 and learned about how the utility operates its septage management program. On December 1, PSA's Lisa Lumbao and Nene Narvaez met with the officials to discuss how to move forward with developing a local ordinance, selecting a site and technology, calculating the user fee and implementing a promotion campaign. Ms. Narvaez also facilitated a meeting with a private treatment plant developer interested in bidding on the project.

The MNWD is currently considering a site that will cost about P12 million and they are planning to construct a lagoon with a mechanized receiving area as is used at Dagat-Dagatan. The remaining part of the 6.2 hectare lot will be developed into a park with bicycle lanes and a fish pond. The City Council has drafted an ordinance patterned on ordinances provided by PSA from Baliwag, Bulacan and Calamba. Ms. Narvaez has also worked with local partners to develop draft promotion campaign materials.

Santa Rosa to launch a Septage Management Program

The City of Santa Rosa sought PSA's assistance in developing a septage management program. PSA Chief of Party Lisa Lumbao and PSA Consultant Andrea Echavez met with Santa Rosa government officials headed by Councilor Louie Algabre on Nov. 30 to discuss the different options that the city can consider in developing its own septage management program. Santa Rosa officials plan to do an exposure trip to the USAID-assisted septage treatment facility in Dumaguete City in February 2011.

2. Hygiene Promotion

Sta. Rosa City Promotes Hygiene through Handwashing

In 2009, Santa Rosa was in the headlines as one of the areas with the most AH1N1 patients and high incidence of diarrhea cases among children under five – 633 cases in three barangays alone. The city government, with assistance from the USAID Philippine Sanitation Alliance, implemented a handwashing campaign targeting mothers with children under five in the three barangays. Barangay health workers and midwives went door-to-door and conducted handwashing demonstrations in health centers and daycare centers. A post-campaign survey showed an increase of 40.6 percentage points of target mothers who could now cite two or more ways of preventing diarrhea. The city is now expanding the campaign to the rest of the city.

Santa Rosa passes Handwashing Ordinance

The City of Santa Rosa, Laguna enacted an ordinance in November requiring soap and handwashing facilities in all public restrooms within the city as part of its hygiene promotion campaign. The USAID Philippine Sanitation Alliance is assisting the city in promoting hygiene and sanitation to address the city's high levels of diarrhea, especially amongst low-income groups. Santa Rosa is the first city in the Philippines to pass such a handwashing ordinance.

3. USAID-Rotary Grant Projects

A. San Fernando City Septage Management and Sewerage Project

On October 21, 2010, the PSA and City of San Fernando conducted a training of trainers workshop for 75 sanitary inspectors, midwives, city government staff and barangay health workers (BHWs). The training covered the city's septage management program and the planned promotion campaign aimed at encouraging city residents to cooperate with the septic tank desludging program and pay the Wastewater Management Fee that will be added to the real property tax in early 2011. A major part of the campaign will be house-to-house visits by the city's BHWs to explain the new program and hand out informational brochures. The participants in the training role-played visits to households and commented on the draft promotion materials.

The people who were trained on October 21 conducted 10 training sessions for 272 Barangay Health Workers from November 17-24, 2010 in San Fernando, La Union. The agenda was similar to the October 21 training. The BHWs were given brochures and posters to use during their house to house visits.

On December 14, the City Council approved City Ordinance 2010-014 amending chapter 16 of the Sanitation Code of the City of San Fernando. The ordinance mandates regular desludging of septic tanks and a fee of P600 per year for residential buildings, P1000 per year for commercial establishments, P1500 for malls and institutions and P2000 for industrial establishments.

Ms. Sally R. Medrano (City ENRO Officer), Hon. Joseph M. de Guzman (City Councilor) and Ms. Kate Letizia (Project Officer, Sustainable Cities International) spoke about the city's septage management program on the "Agay-ayat Kadakayo Amin Radio Program - Mayor in Action" on December 7, 2010 from 8 to 9 a.m. Specific topics of discussion included: the amendment to the City's Sanitation Code, the proposed Wastewater Management Fee, the planned desludging program, the eco-tank program, the project partners (USAID, Rotary Club) and the promotions campaign. The Hon. Pablo C. Ortega, City Mayor, was also in attendance, amongst a number of media and radio program staff. The topic of septage management was discussed for approx. 40 minutes in total.

B. Pasig River System Improvement Project

MEF Makes Great Strides in Rotary River Project; Signs MOA with Brgy. Damayan

Mother Earth Foundation (MEF), the NGO assisting with solid waste management and community support for Maynilad's planned sewage treatment plant (STP) for Barangay Del Monte and Damayan conducted a series of seminars and disseminated information materials during the quarter. On Oct. 18, a Memorandum of Agreement (MOA) signing was held in Brgy. Damayan following a series of surveys, presentations and consultation activities with stakeholders and sectoral representatives. The MOA signing was witnessed by project partners USAID PSA, Rotary District 3780, Maynilad, and Brgy. Damayan. The MOA was intended to solidify support by all parties for the ecological solid waste management (ESWM) program in Brgy. Damayan. It coincided with the celebration of Global Handwashing (GHD) Day hosted by Congressman Reynaldo A. Calalay Memorial Elementary School (CRACMES), which garnered a Rank II in the Green School Blue School (GSBS) initiative. The prestigious ranking was clinched by CRACMES after undergoing a series of ESWM training and planning with MEF. The awarding and launch of GSBS was also done during the GHD event. The GSBS launch was also complimented by the inauguration of a handwashing station built by Maynilad officials as part of their corporate social responsibility initiative called Lingkod Eskwela.

USAID-Rotary Project in Quezon City Shows Results

The Quezon City portion of the USAID-Rotary Pasig River Improvement Project has achieved initial results in solid waste management in Barangay Damayan in Quezon City. NGO partner Mother Earth Foundation reported that during a dry run of the waste segregation program, nearly all of the households segregated their kitchen wastes 5 out of 7 days of the week. This waste was collected by a contractor of the city government to use as hog feed. Local junk shops collected recyclables and a local church collected garden waste for conversion into charcoal and compost. In January, the barangay will apply for a P100,000 incentive from the city in recognition of their ability to divert more than 30% of their solid waste. Plans are currently underway to develop two material recovery facilities using Rotary International funds and cost share from the local government and donations of land. Volunteers from the University of the Philippines will assist with the house-to-house information campaign in February, and Mother Earth Foundation and Maynilad Water will conduct an orientation meeting with the newly elected barangay officials.

Congressman Reynaldo A. Calalay Memorial Elementary School (CRACMES) is also doing very well with its solid waste management program, which includes a materials recovery facility and banning of straws and plastic in the cafeteria. Given the success of Mother Earth Foundation's work, Manila Water has requested their assistance in replicating this approach in other areas.

Sta. Ana Market Successfully Treats Wastewater and Manages Solid Waste

The wastewater treatment facility was formally commissioned in late November/early December after a series of operation and maintenance trainings conducted by Engineer Lito Santos of PSA. Five staff from the City of Manila Engineering Office were trained in the day-to-day tasks required to operate and maintain the facility to keep it in good working order. The facility has been fully operational since December 2010 at approximately 40% capacity. Additionally, an initial meeting was held to discuss grease management with identified grease producers at the Sta. Ana Market. The attendees, consisting mostly of members of the Market Solid Waste Management Committee, were enthusiastic about managing grease to avoid clogging up the pipes or the WTP. However, additional steps are required to fully implement the grease management plan that was initially outlined at this meeting.

The Market Solid Waste Management Committee, initially trained by the Solid Waste Management Association of the Philippines (SWAPP), has converted the barracks used for storage materials during construction of the WTP into a material recovery facility (MRF). The committee uses the space to separate and store recyclable materials and store the compost they are producing. The committee members are enthusiastic about solid waste management and use every opportunity at their disposal to learn more about both the technical and scientific aspects of the industry. They have been a positive influence on the Sta. Ana community and their success and contagious enthusiasm has led the Department of Science and Technology (DOST) to donate a bioreactor to further the committee's efforts. Additionally, the committee shall be officially certified as a Rotary Community Corps which links volunteers with the committee for added manpower and impact.

4. Environmental Compliance

During the quarter, PSA staff continued to follow up with the City of Manila for documents needed for the Sta. Ana Public Market Wastewater Treatment Plant, such as the building permit and environmental clearance certificate. Discussions were also undertaken regarding the San Fernando septage treatment plant construction and Calamba sewage treatment facility. There will be more detailed discussions in Quarter 14.

IV. Management and Finance

The project is on track in terms of overall management, reporting and expenditures. Information on training programs is updated on the TraiNet system. AECOM has requested a budget realignment, which is being reviewed by USAID. AECOM and USAID agreed on revised indicators. The PSA website has been developed and will be launched in February.

V. Performance Objectives for Next Quarter

During the next quarter, AECOM will focus on the following major activities:

1. Training on operations and maintenance and grease management for the Sta. Ana Public Market Wastewater Treatment Facility;
2. Construction of the San Fernando Septage Treatment Facility and collection of the user fee;
3. Toilet and sink repairs in Sta. Ana;
4. Bidding out of construction contracts for Calamba sewerage and Laguna septage treatment plants;
5. Launching of a PSA website; and
6. Continued assistance focused on development of septage management programs and promotion campaigns.