



Smokey Mountain Remediation & Development Program (SMRDP) December 2005 Summary Report

Project Start Date: August 2005	Completion Phase I: December 2006
	Phase II: January 2007-August 2008

Public-Private Partnership Update:

SPM is collaborating with the City of Manila's Department of Sanitation (DPS) to implement their Solid Waste Management Plan. SPM has been asked to assist in helping to upgrade the operations of the Manila Eco-aide Association in the City of Manila, and to organize their Eco-waste program and information campaign in the Tondo area. A DPS staff member has been assigned to work closely with SPM team.

SPM has met on separate occasions with the private sector groups being considered for operations and maintenance of the City's MSW disposal site including: Pro-Environment, Hi-Tech Bioenergy and Pristine Environment Corporation (PEC).

SPM met with Carbon Finance Officer of the World Bank, Mr. Francisco Fernandez-Asin and the Ms. Annie Farrales, DPS, Manila. The City is interested in pursuing the Clean Development Mechanism (CDM) of the Kyoto Protocol. Opportunities to generate carbon revenue from Manila's MSW are through composting, gas flaring from the sanitary landfill and waste to energy. SPM will facilitate the CDM registration, should the City of Manila decide to go forward with this.

Other organizations drawn to the program and interested to collaborate with SPM in the implementation of the SMRDP are Unilever and the Kababaihan ng Maynila. Unilever, a large multi-national organisation, has adopted SKMP's recycling program as a beneficiary of their corporate programs. They have made initial commitments to provide safety equipment and for the SMRRS MRF facility such as gloves, boots, masks, a first aid kit, and so on. The Kababaihan ng Maynila, whose founder and Chairperson, Ms. Evelyn (Beng) Atienza is the wife of the City Mayor, is a women's organization involved in livelihood projects for the poor of Manila. The Kababaihan group has agreed to partner with SPM in the implementation of the information and education campaign.

Testing and Monitoring of Air & Water Quality:

- a) Consolidation of Smokey Mountain baseline information. Data taken from the files of the NHA, R-II Builders Inc. and the EMB-DENR Environmental Impact Statement (EIS). (*See Annex F- Smokey Mountain Baseline Information, July 2005*).
- b) Identification of testing sites by Martin O'Neill (MON), SPM Senior environmental engineer. Discussions between MON, SPM scientist, Rean Monfil and local environmental engineer Natalie Jiricek, have taken place to decide on the most appropriate and cost effective methodology for the baseline testing in Smokey Mountain. The group agreed that Radiello testing was the way to go forward and shortlisted several consultants to implement the Radiello testing and analyse the findings. (*See Annex G – Testing Points on Smokey Mountain*).



- a) Meetings were held with the two local groups to discuss the terms of reference for the testing and monitoring of gases at Smokey Mountain:
 - (i) TEST Consultants - A quotation was submitted based on the Radiello menu of gases and a company profile. TEST is a consultancy firm that has several government contracts and does work for multilateral development banks. Contact person is Mr. Rollie Dimayuga. (*See Annex H – TEST Cost Analyses WEM 09 2005 & Company Profile*).
 - (ii) Pan-Pisco - This company undertakes environmental and safety consultancy work for the private sector, including Shell, and other large international companies. Their testing and monitoring equipment allows them to obtain immediate results. Pan-pisco is expected to submit their quotation for Radiello testing before close of November. Contact person is Mr. Bernardo Dee. (*See Annex I - Pan-Pisco Profile – Equipment and testing specifications*).
 - (iii) The third option identified in the event that both proposals were neither satisfactory, was to engage SPM's environmental scientist Rean Monfil who is currently based in Australia.

Community Baseline Survey:

- a) A draft Community Survey has been developed which asks questions to ascertain:
 - (i) community demographics around Smokey mountain
 - (ii) current employment activities
 - (iii) attitudes towards alternative employment activities which will be created by various activities resulting from the project;
 - (iv) current health status and perceptions about health and the Smoky Mountain physical and natural environment.
- b) The final design of the survey will be completed in the next few weeks following consultation with SKMP and community leaders to ensure that the way in which the survey is constructed will make it easy to complete, both for those doing the surveying and those answering the questions. The aim of the survey is to provide baseline data against which improvements in employment, health and the environment will be measured towards the end of the project to show what improvements have been achieved or areas where further work needs to be done.

2.5 Information & Education Campaign

- a) A planning meeting was held with Mother Earth Philippines, the community leaders and the City of Manila representatives to discuss the training workshops' design and content.
- b) A Trainor's Training workshop on Ecological Solid Waste Management was held on September 24, 25 & October 1, 2005) at the Mother Earth Headquarters in Blue Ridge, Quezon City. Attending the workshop were the SKMP officers, building leaders and environment officers of the 21 buildings at the Permanent Housing Complex. Also present were barangay council members, representatives of the Kababaihan ng Maynila, and the Manila's DPS staff. Workshop outputs include the Smokey Mountain Story as told by the residents, identification of stakeholders and potential partners, strategies for implementation of a solid waste program for the 21 buildings, including strategies to disseminate and incentivize the residents to participate in the program. Each building has 150 families with at least 6-8 family members, not to mention other extended family members residing in the premises. The scheme is still subject to the approval of the other community members. (*See Annex J – Workshop Proceedings*)



- c) Follow-up sessions on Ecological Waste seminars were conducted by the volunteers of the Kababaihan ng Manila. These were held at the 21 buildings on October 11, 12 & 13, 2005. These seminars focused on instructing the households on waste segregation in their respective buildings and livelihood opportunities through recycling. With the support of Ms. Beng Atienza and other women NGOs, the Kababaihan ng Manila have been successful in marketing their recycled merchandise both in the Philippines and overseas.
- b) A follow up general assembly was held to announce the results of the training workshops and the on-going information drive in the community. The objective of the meeting is to get support and feedback of the community on the proposed program drafted during the seminar workshops held at Blue Ridge. It was agreed at this meeting that the program would be piloted in 7 buildings which showed greatest interest in the program.
- c) The program was launched on November 20, 2005, immediately upon delivery of the recycling bins provided by the SMRDP program to the 7 buildings designated as the pilot sites. The residents started the waste segregation efforts in their buildings, some more successful than others. SMRSS is responsible for collecting the biodegradable wastes daily and turning it over to the MRF composting facility for processing. SMRSS began collection on November 20 and is closely coordinating with the building leaders for this effort.
- d) SPM, Mother Earth and the Building leaders responsible for information dissemination met on November 24, 2005 to discuss strategies on how to encourage and sustain community interest in the program, including launching a building to building competition. Unilever, another SMRDP partner, has agreed to provide all the prizes for this competition. Awarding and announcements of the winners is being scheduled during the SMRDP Christmas party on last week of December.

2.6 Development of a Material Recovery Facility

- a) Meetings were held with the Department of Science & Technology (DOST) representative Ms. Cely Lozano from the Materials & Science Division and SMRRS' managers on October 12, 2005 to discuss technical issues relating to the proposed relocation and transfer of the Bioreactor. The bioreactor is a high-temperature reactor-based composting technology. SMRRS manages this facility. The DOST donated the bioreactor to the SMRRS composting program in 2001 and has been non functional for over a year when electricity was cut of the Temporary Housing complex where it is currently situated. The plan is to move the bioreactor from the temporary housing area to Paradise Heights at the NHA's Permanent Housing complex. More background information is found in the following section. (*See Annex K- Photos of the Bioreactor and the composting & recycling facility at the Temporary Housing*).
- b) The NHA and HGC have approved in principle a request to provide a 500 square meter property (subject to increase to 1,000 sq. meter) that will be used for the SMRRS Composting & MRF facility. The NHA recommended an area behind Buildings 4 & 5 of Paradise Heights in the Permanent Housing Complex. HGC and NHA have jurisdiction over the Smokey Mountain property. HGC will hand over the property as soon as the DENR provides a Written Notice to Proceed. SPM has submitted all the documentation needed for the DENR's approval for the relocation and operation of the bioreactor to the proposed site in Paradise Heights.
- c) A report on the project description of the proposed composting facility was completed to comply with the DENR's requirements and the projected costs of the transfer and construction of the MRF. (*See Annex L - Project Description of the SMRDP*) (*Annex*



M- Projected Costs of Construction and Transfer of the SMRRS Proposed Composting Facility).

- d) The SMRDP team made a courtesy call to the Barangay Captain of Barangay 129, Mr. Boy Iradiel and several council members on August 25, 2005 to inform him about the proposed transfer of the SMRRS composting facility to his Barangay. The Barangay Captain had no objections and assigned his environment officer, Ms. Patricia Regalado, to closely coordinate with the SMRDP team. Ms. Regalado was present on all occasions at SMRDP seminar workshops and follow up meetings with the community at Smokey Mountain.
- e) Several meetings were held between SPM and the leaders of the major junkshop operators in Smokey Mountain including SMRRS, Manila Eco-Aide Cooperative & Livelihood Association, Hi-Tech Multi-purpose Zero Waste Cooperative. Discussions focused on opportunities for cooperation among these groups. Ms. Regalado was responsible for bringing the Hi-tech group on board.
- e) The operation of the SMRRS composting/MRF facility will be piloted during the Southeast Asian games that will be held in Manila during the last week of November. The SMRRS was invited by the SEA games organizers to assist in the implementation of their zero waste program. SMRRS is expected to collect, haul, sort and dispose of all waste (biodegradable, recyclable and residual) generated at the SEA games venues in Manila. Involvement in the SEA games is intended as a launching pad for the SMRRS composting facility.
- f) SPM and SMRRS Manager, Mr. Tony Villacorta, did a test run of the bioreactor, i.e., composting equipment in preparation of the SEA games. SMRRS members will be collecting the segregated waste from SEA games venues and delivering this to their compost facility. SMRRS is expected to break even in their profits from recyclables and compost derived from the SEA games venues. *(See Annex N - SMRRS media coverage during the SEA games).*
- g) Mr. Bert Guevara, Mr. Villacorta and Anita Celdran (SPM) are in the process of completing the MRF draft business plan in time for submission of the 90 day report to the PEP. *(See Annex O - Initial Draft Business Plan for the MRF).*

2.7 Skills Training & Capacity Building

- a) Exploring Microfinance will be a key component of the Community-based MRFs.
 - (i) SPM will conduct a needs analysis on SKMP skills through the community survey and other relevant groups for the Smokey Mountain communities. The survey form has been incorporated into the community survey mentioned in Section 2.4 above. *(Perya: is this right??)*
 - (ii) Discussions with Father Beltran happened about the lessons learned from initial attempts (that were not successful) at microcredit in the Smokey Mountain area. This was spearheaded by the Couples for Christ. According to Fr.Beltran, most of the success stories for microfinance programs in the Philippines are based in rural areas or smaller cities. It will be a challenge to undertake this in Manila.
 - (iii) A meeting was held with Philip Camara, Executive Director of SASFI, an NGO with successful experience in setting up microfinancing for sustainable enterprises for rural applications. SPM has also scheduled meetings with other MFIs in the Philippines.
 - (iv) Mr. Hugh Faulkner, SPM Chairperson and Ms. Marlyne Sahakian, SPM members based in Geneva are linking the SMRDP program to international groups interested to support microenterprise development through project

SUSTAINABLE PROJECT MANAGEMENT

INNOVATIVE PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT



financing in the Philippines. They attended an international conference “Investing Private Capital in Micro & Small Business Finance” organized by CASIN and the Geneva Financial Center. Ms. Sahakian will coordinate with Anita Celdran in getting microfinance (See Annex P – Conference Report).

2.8 Sharing Lessons with other project sites

- a) Candon City. SPM continues to assist the Mayor of Candon City in the implementation of their SWM program. At this stage, the City has acquired the land, completed their site development plan, and received approval from the City Council to proceed. The next step entails doing their feasibility study and Anita Celdran has introduced them to several consultants. They have agreed to finally go with the group led by Mr. Ric Miranda.

First Farmers, Negros Occidental. First Farmers has been given a preliminary approval signal from Bago City Council pending EIA results. They are now in the process of contracting consultants to undertake their Feasibility Study which is a requirement of the EIA.



B. Activity Summary

1. Introduction

This report explains all the activities achieved during the first ninety days of this project. The attachments provide further detail where necessary on specific components of these.

2. Project Activities

2.1 Stakeholder Consultations

- a) Formation of the SMRDP team to guide and manage the different project proponents. This process included consultation meetings with the:
 - **Smokey Mt. Resource Recovery System (SMRRS).** SMRRS is SKMP's (Parish of the Risen Christ NGO at Smoky Mountain) recycling arm. Discussions focused on the re-establishment of SMRRS's defunct composting facility. The operations of their composting facility were discontinued because the National Housing Authority (NHA) had an order to dismantle all structures in the temporary housing area. SKMP members formerly resided as squatters in this area prior to their being transferred to Paradise Heights in the Smokey Mt. Permanent Housing complex, Barangay 129. The Permanent Housing complex is a NHA social housing program. SKMP members were beneficiaries of this program.
 - **Manila Eco-aide Cooperative & Livelihood Association.** This is one of three organized recycling groups operating in the Smokey Mountain area. Discussions with the leaders focused on ways to improve the recycling operations and facilities of their Eco-Aide members. Their cooperative is contracted to collect and recycle the waste of fast food chains, specifically all the Jollibee outlets in Manila. They are seeking assistance in market development and project financing.
 - **Department of Public Sanitation (DPS), City of Manila.** Initial meetings Ms. Annie Farrales, DPS Officer-in Charge, focused on developing collaborative efforts towards the implementation of the City's Municipal Solid Waste Management (MSWM) plans, specifically in several of the highly populated and depressed barangays in Tondo areas. (*See Annex A- Unbundling Manila's Waste – A Grassroots Approach*)
 - **Mother Earth Philippines.** Discussions concentrated on the role of Mother Earth in the implementation of the information and education campaign. The main contact is Ms. Odet Alcantara, who is also a convenor of the Earth Day network, a large network of environmental groups in the Philippines.
 - **Bert Guevara.** Discussions focused on Mr. Guevara's involvement in the development of the 3 MRFs targeted by the SMRDP. His track record includes successful implementation of a barangay-based solid waste management program and a lucrative MRF program in Sun Valley, Paranaque. (*See Annex B - Mr. Guevara's resume and Terms of Reference*).
 - **Barangay Captain Boy Iradiel.** Courtesy call with Barangay Captain on August 25, 2005 to win support for SMRDP activities in his Barangay. (*See Annex C – Minutes of the Meeting with the Barangay Captain*).
- h) Planning Workshop with SMRDP Team Members (September 29, 2005). The workshop attendees were Ms. Natalie Jiricek (representing SKMP), Mr. Bert Guevara (Technical Consultant for the MRF Development project component), Ms. Odet Alcantara of Mother Earth Philippines, Ms. Raquel



- **Home Guarantee Corporation (HGC).** Initial meetings were held with Ms. Melinda Adriano, Manager of the Developmental Guaranty Department followed by a meeting with Mr. Gonzalo Bongolan, HGC's President. Discussions focused on SKMP's request to lease property in the Permanent Housing area. This property would be used for the SMRRS composting facility. HGC officials have approved the request pending the DENR's Notice to Proceed. (*See Annex D – Map of Proposed MRF Site*).
- **Department of Environment and Natural Resource (DENR).** Discussions focused on DENR requirements, i.e., documentation and regulatory permits, to get the notice of approval. Details are discussed in the following section Activity 2.6 - Development of the MRFs.
- **Department of Budget and Management (DBM).** Meetings with the DBM Secretary Mr. Romulo Neri and staff to present the SMRDP project. Discussions focused on the creation of an institutional mechanism within the DBM for micro-enterprise development that would create employment opportunities for poor communities engaged in recycling not just in Smokey Mountain but also in other areas of the Philippines.
- **Metro Manila Development Authority (MMDA)** –Discussions with Mr. Marcial Sese (Planning Officer) and Mr. Rolando Paguinto (Municipal Solid Waste Assistant Head) focused on the MMDA plans for a defunct MRF located behind the old Smokey Mountain garbage dumpsite. Both SKMP and the City of Manila are interested in taking over this infrastructure.
- **Mayor Lito Atienza, City of Manila** – SPM made a presentation to Mayor Lito Atienza on August 28, 2005 on the benefits of a Public-Private Partnership approach to Solid Waste Management. The Mayor entertained two of the private sector groups that were present during SPM's presentation. The Mayor is fast tracking the closure of Pier 18 in response to a threat by the Integrated Bar of the Philippines (IBP) to sue the Mayor for non-compliance of R.A. 9003. He is also viewing with interest a third private sector group that owns the property adjacent to the Pier 18 open dumpsite. (*See Annex E – Presentation to Mayor Lito Atienza*)

2.2 Development of the PPP

b)

C. Performance

The key accomplishments during the first 90 day period (in reference to Project Indicators provided in the project proposal) are as follows:

1. Partnerships forged with key stakeholders for the implementation of the SMRDP project including:
 - a. 3 Community-based cooperatives in the Tondo area to operate the MRFs: SMMRS, Manila Eco-Aide Cooperative, and the Hi-Tech Multi-purpose Zero Waste Cooperative.
 - b. City of Manila's DPS – SPM and DPS will be signing a Memorandum of Agreement to collaborate on the on-ground implementation of the R.A. 9003 in Tondo. They have designated a full time staff to work with and monitor the SMRDP ground activities.
 - c. DENR National Solid Waste Management Commission – A DENR representative is actively engaged in SMRDP activities and has been facilitating regulatory permits and requirements needed to advance project implementation.
 - d. Mother Earth Philippines - They have agreed to the adopt SMRDP as one of their flagship projects and will assist, if not lead, the implementation of the information dissemination, education and media component.
 - e. Barangay officials of Brgy. 129 - Participating in SPM activities including helping to organize community meetings, information drive. They have given their nod of approval for the SMRRS MRF/ composting facility that will be transferred to their barangay.
2. Commitment of the City mayor to Pristine Environment Corporation (PEC), a private sector group bidding to operate the MSW disposal area. SPM will facilitate the application of the City of Manila's by assisting them in their CDM application. The advantages provided by the CDM project, i.e., project financing and the carbon revenues, has been a big incentive for the City to move forward with the project.
3. SPM has identified the testing point and decided to go forward with the Radiello as the preferred methodology for baseline testing. SPM has also identified and shortlisted at least three consultants to undertake the activity. Testing will begin in the next two weeks pending the submission of the quotation of Pan-pisco which is expected on November 29, 2005.
4. First Trainor's Training Workshop was conducted by Mother Earth Philippines at their Quezon City Headquarters. The most significant accomplishment from the workshop is the identification and development of project leaders. All follow up meetings (4 meetings) held in Smokey Mountain were led and conducted by these leaders. 7 out of 21 buildings are now implementing the program plan that was drafted during the workshops.
5. The project has made significant progress on the MRF front.
 - a. Secured approval from the Home Guaranty Corporation to utilize a 500 square meter property at the Permanent Housing compound. We are requesting an additional 500 square meter for the MRF which is up for discussion in the next HGC Board meeting.
 - b. Completion of the initial draft Business Plan for the MRF operations and marketing. The draft will be circulated to other SMRDP & SPM team members for feedback.

SUSTAINABLE PROJECT MANAGEMENT
INNOVATIVE PARTNERSHIPS FOR SUSTAINABLE DEVELOPMENT

